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Trade-Marks	137—No.	403,449 to No.	403,585, inclusive.
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Reissues	4—No.	22,379 to No.	22,382, inclusive.
Plant Patent	1—No.	601	
Patents	608—No.	2,330,187 to No.	2,330,794, inclusive.
Designs	18—No.	136,400 to No.	136,417, inclusive.
Total	844		

Adjudicated Patents

(D. C. N. J.) Wolff patent, No. 1,813,334, for audion circuit battery control, *Held* invalid and not infringed. *Wolff* v. *Western Electric Co.*, 50 F. Supp. 509.

(C. C. A. Ill.) Klein and Szegvari patent, No. 1,825,736, for method for the production of rubber goods directly from latex, claims 1, 16, 18 and 19 *Held* valid and infringed. *American Anode* v. *Lee-Tex Rubber Products Corp.*, 136 F.(2d) 581.

(C. C. A. Cal.) Marchus patent, No. 1,845,922, for air hose connection, claims 1 to 4, inclusive, *Held* invalid. *Marchus* v. *Druge*, 136 F.(2d) 602.

(C. C. A. Cal.) Marchus patent, No. 1,892,435, for combined tire gauge and filling valve, claim 1 *Held* invalid. *Id.*

(D. C. Conn.) Heim patent, No. 1,943,864, for bearing construction, claim 1 *Held* invalid and not infringed. *Heim* v. *Torrington Co.*, 50 F. Supp. 500.

(C. C. A. Ill.) Twiss patent, No. 1,996,051, for method and form for manufacturing rubber goods from an aqueous dispersion of rubber, claims 2, 4, 17, 18, 28 and 29 *Held* valid and infringed. *American Anode* v. *Lee-Tex Rubber Products Corp.*, 136 F.(2d) 581.

(C. C. A. Cal.) Marchus patent, No. 2,012,540, for tire gauge, claim 8 *Held* invalid. *Marchus* v. *Druge*, 136 F.(2d) 602.

(D. C. Conn.) Heim patent, No. 2,080,609, for bearing construction, claims 10, 12, 13 and 14 *Held* invalid and, if valid, *Held* infringed. *Heim* v. *Torrington Co.*, 50 F. Supp. 500.

(D. C. Conn.) Heim patent, No. 2,102,460, for method of making roller bearings, claims 9, 15 and 16 *Held* invalid and not infringed. *Id.*

Disclaimers

1,943,864.—*Lewis R. Heim*, Danbury, Conn. Bearing Construction. Patent dated January 16, 1934. Disclaimer filed September 3, 1943, by the inventor.

Hereby enters this disclaimer to claim 1 in said patent.

2,080,609.—*Lewis R. Heim*, Mount Dora, Fla. Bearing Construction. Patent dated May 18, 1937. Disclaimer filed September 3, 1943, by the inventor.

Hereby enters this disclaimer to claims 10, 12, 13 and 14 in said patent.

2,102,460.—*Lewis R. Heim*, Mount Dora, Fla. Method of Making Roller Bearings. Patent dated December 14, 1937. Disclaimer filed September 3, 1943, by the inventor.

Hereby enters this disclaimer to claims 9, 15, and 16 in said patent.

2,110,118.—*John Douglas Robertson* and *William G. Staples*, Dighton, Mass. Fabric and Method of and Apparatus for Treating the Same. Patent dated March 1, 1938. Disclaimer filed September 3, 1943, by the assignee, *Mount Hope Finishing Company*.

Hereby enters this disclaimer to claims 7 through 15 inclusive, of said patent.

2,261,800.—*Robert L. Freeman*, Flushing, N. Y. Automatic Control System for Carrier-Wave Signal Receivers. Patent dated November 4, 1941. Disclaimer filed September 2, 1943, by the inventor; assignee, *Hazeltine Corporation*, assenting.

Hereby enters this disclaimer to claims 4, 5, and 6 of said patent.

2,281,107.—*Henry J. De N. McCollum*, Chicago, Ill. Heating System. Patent dated April 28, 1942. Disclaimer filed August 20, 1943, by the inventor.

Hereby enters this disclaimer to claims 1 and 6 of said patent.

Conditions of Applications Under Examination at Close of Business September 11, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,870 Trade-Mark Division, 1,077. Oldest new case, Nov. 16, 1942, oldest amended, Nov. 14, 1942)
(The dates given are 1943 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons, Domestic Cooking Vessels; Sewerage.	May 27	June 19	263
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	May 4	Apr. 21	330
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Jan. 7	†Dec. 26	1020
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Mar. 29	Apr. 16	410
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Mar. 2	Mar. 3	477
6. GENIESSE, E. W., Carbon Chemistry (part)	Feb. 18	Feb. 11	1044
7. JARROE, C. G., Optics, Photography	Apr. 23	Apr. 16	719
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Mar. 11	Apr. 13	554
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Mar. 15	Feb. 22	710
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	347
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Mar 27	Feb. 20	372
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Mar. 22	Mar. 29	539
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	May 14	May 1	504
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Mar. 2	Mar. 6	815
16. SPENCER, C. J., Telegraphy; Telephony	Feb. 5	Feb. 12	586
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Dec. 2	†Dec. 2	638
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Jan. 25	†Dec. 21	629
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Jan. 28	Jan. 29	493
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Mar. 27	Mar 27	442
21. THOMPSON, T. J., Textiles	Apr. 9	Mar. 19	271
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Dec. 9	†Dec. 10	1812
23. BARROWS, B., Cash Registers; Calculators (part)	Mar 30	Mar. 1	156
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	May 27	June 1	445
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 12	Mar. 10	519
26. YOUNG, R. R., Electricity—Generation and Motive Power	Jan. 11	Jan. 11	763
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Jan. 20	Jan. 15	512
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Dec. 22	†Nov. 14	665
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Apr. 12	May 5	428
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	June 5	May 21	253
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Mar. 29	Mar. 29	1315
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Mar. 1	Mar. 3	642
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Apr. 7	Apr. 16	644
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Mar. 4	Apr. 3	439
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Jan. 1	Mar. 10	485
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 21	June 17	265
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 5	Apr 16	531
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Feb. 3	Feb. 4	580
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	May 27	May 27	397
40. DRUMMOND, E. J., Receptacles	June 14	June 14	447
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Mar. 15	Mar. 18	403
42. MARANS, H., Electric Signaling	May 29	May 26	349
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Jan. 7	Jan. 1	807
44. HARVEY, L. P., Refrigeration	Feb. 10	Feb. 12	294
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part)	Mar. 4	Mar. 27	735
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Apr. 14	Apr. 28	412
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Mar. 10	Mar. 2	1048
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Feb. 26	Feb. 24	767
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Mar. 4	Mar. 15	571
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Feb. 25	Feb. 25	1322
51. BACKUS, C. D., Radiant Energy	Feb. 12	Feb. 17	1145
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits	Mar. 27	Mar. 19	637
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders, Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Feb. 24	Feb. 3	202
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	†Nov. 16	Jan. 1	551
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Dec. 31	†Dec. 30	686
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Mar. 15	Mar. 10	728
57. NICOLSON, G. D., Toys, Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 10	Feb. 17	414
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Mar. 12	Feb. 6	527
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Dec. 17	†Dec. 18	1217
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Jan. 13	Jan. 12	535
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling, Horology, Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Feb. 15	Feb. 18	469
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Apr. 9	Apr. 29	484
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Jan. 16	Jan. 26	1079
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Apr. 24	Apr. 26	1032
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission, Telephony, Repeaters and Relays.	Jan. 15	Jan. 7	749
Trade Marks. RICHMOND, F. A.	Aug. 2	Aug. 3	1077
Designs. KALUPY, H. H.	Aug. 16	Aug. 20	246

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE SHAFF

No. 4,730. Decided May 3, 1943

[— F.(2d) —]

PATENTABILITY—CARBURETOR.

Certain claims to a carburetor *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. N. D. Parker, Jr., and *Mr. A. R. McCrady* for Shaff.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

After having allowed seventeen claims of appellant's application for a patent relating to a carburetor, the Primary Examiner of the United States Patent Office finally rejected claims 32 to 37 inclusive, and upon appeal to the Board of Appeals the Examiner's decision was affirmed. Appellant has here appealed from the decision of the Board.

Appellant's invention relates to an improvement in a carburetor and particularly to that kind of carburetor adapted for use in an internal combustion engine, such as an automobile engine. Its chief usefulness is claimed to rest in the improved starting condition it imparts to an internal combustion engine. The carburetor has a choke valve, which is biased towards closed position by gravity and by a spring. The spring is connected to one end of a bi-metallic thermostatic element, and the other end is connected to a lever which is pivoted on the carburetor body. The other end of the lever is connected to a bellows which is responsive to engine intake pressure.

Claim 32 appears to be representative. It reads as follows:

32. In an internal combustion engine, a carburetor in which there is incorporated a choke valve which is so arranged that flow of air into the carburetor tends to open it, a passage connecting the carburetor with cylinders of the engine, an element actuated by variations in pressure within the passage, an element actuated by variations in temperature of the engine, means operatively interconnecting the first and second mentioned elements, and means operatively interconnecting the second mentioned element and the choke valve.

The references relied upon by the Patent Office tribunals are: Heitger, 1,821,014, September 1, 1931; Hifner, 1,630,614, May 31, 1927.

The Heitger patent relates to a carburetor and shows a choke valve biased towards closed position by a weight and by the action of a bi-metallic element which acts both as a spring and a thermostat. In Heitger's device, however, the thermostat is connected with an arm which is manually adjustable.

The patent to Hifner shows a carburetor having a choke valve which is biased towards closed position and which is operated by a pressure-responsive device connected with the engine intake. The latter device opens the choke valve when the engine is running, but the valve is kept closed during starting.

The Primary Examiner rejected all the appealed claims upon the patent to Heitger in view of Hifner. After stating what both of these patents disclosed, he held that it would not amount to invention to follow the disclosures of the two patents and to construct appellant's carburetor.

The Board of Appeals, in discussing the references and making application of them, had the following to say:

The Heitger patent shows a carburetor having an unbalanced choke valve in its intake passageway normally biased to closed position and adapted to be opened proportionally to air flow. The closing bias is provided by an arcuate element which serves both as a spring and as a thermostat. One end of this thermostatic spring is adjustably associated with the choke valve and the other with a manually adjustable arm by movement of which the bias may be changed when the engine starts. By the provision of certain stop shoulders on this arm and on a second crank arm connected to the choke valve, it is possible not only to change the bias but also to positively shift the choke valve to closed position.

The Hifner patent shows a choke valve designed to be normally closed and connected to a fluid motor subject to manifold suction for opening the same when the engine starts to operate under its own power. In Hifner, no thermostatic spring is interposed between the control means and the choke valve as in Heitger.

Heitger is deemed to show the broad combination involved in the claims on appeal, viz., an unbalanced choke valve normally biased to closed position by a combined spring and thermostatic means, the effectiveness of which may be varied by adjustment of one end of the thermostat in accordance with the operative condition of the engine. The difference is that, whereas Heitger provides manual means for making this adjustment, applicant provides automatic means in the form of a suction device associated with the intake manifold. Inasmuch as it was broadly old to thus automatically make a choke valve adjustment, as shown by Hifner, it was the Examiner's view, with which we agree, that the use of a similar automatic means to change the bias on the Heitger choke, instead of the manual means disclosed, would not amount to invention.

In making this substitution, the adjustment by stages contemplated by Heitger and appellant might not be attained but the claims on appeal would be satisfied, even if adjustment from maximum to minimum bias took place upon starting the engine, as in Hifner.

The appealed claims at one time constituted counts of three interferences. The appellant, Shaff, was senior party. Upon motions to dissolve those interferences, it was held by the Primary Examiner that the counts were unpatentable over Heitger in view of Hifner. Upon appeal by some of the parties, the Board of Appeals affirmed the action of the Examiner in holding the counts unpatentable over said references and in dissolving said interferences.

Upon final rejection by the Primary Examiner of the claims at bar, appellant brought the question again before the Board of Appeals. It adhered to its views expressed in the former appeal and stated:

* * * On again carefully considering the question in view of the argument and brief presented, we are still of the opinion that the claims involve no more than the making of a manual operation automatic by the use of a means which has been used in a similar relation in the prior art.

We are in entire agreement with the decision of the Board, and little need be said other than to approve of the language last quoted. It does not seem to us that it would involve invention to connect the Hifner automatic means to Heitger's manually operated means.

Appellant argues at length about the advantages derived from his device in that he adjusts the richness of his fuel mixture during the warming-up period. It is noted that the allowed claims seem

fully to cover this feature of appellant's invention. Attention has been called to this fact by the Examiner in his statement.

The decision of the Board of Appeals affirming that of the Examiner in rejecting the appealed claims is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE WALKER ET AL.

No. 4,736. Decided May 3, 1943

[— F.(2d) —]

PATENTABILITY—METHOD OF SCARFING.

Claims to a method of scarfing or gouging a shallow layer of surface metal from a ferrous metal body *Held* patentable over the prior art.

APPEAL from the Patent Office. Reversed.

Mr. Charles C. Scheffler and *Mr. Eugene L. Greenewald* (*Mr. Wm. F. Mesinger* and *Mr. Donald C. Harrison* of counsel) for Walker et al.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

HATFIELD, *J.:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims, Nos. 1, 2, and 3, in appellants' application for a patent for an alleged invention relating to a method of scarfing or removing defective surface metal from a ferrous metal body, such as a steel billet, in relatively wide shallow channels.

Claim 1 is illustrative of the appealed claims. It reads:

1. Method of scarfing or gouging a shallow layer of surface metal from a ferrous metal body, such as a steel billet, which comprises heating at least a portion of the surface of said billet to be gouged to an ignition temperature; providing a relatively voluminous stream of oxidizing gas; reducing the velocity of flow of said stream; discharging said stream through an orifice elongated transversely of the direction of flow to provide a substantially sheet-like stream having a predetermined velocity; directing said stream at an acute angle against the preheated surface portion; maintaining said sheet-like stream positioned with its longer transverse dimension substantially parallel to said surface; and relatively moving said stream and said surface in a direction parallel to the surface and in the general direction of flow of said stream.

The references are: Walker, 1,726,327, August 27, 1929; Ross, 1,955,977, April 24, 1934; Crowe, 1,985,080, December 18, 1934.

Appellants state in their application that the relatively wide, shallow channels produced by their method have "gradual side slopes," and that the metal forming such slopes will not be folded over during the subsequent rolling operation and cause concealed cracks or defects in the body of the metal which frequently occurs where defective surface metal is removed by a narrow gouge.

As appears from the quoted claim, the surface of the metal to be scarfed is heated to an ignition temperature and then subjected to a relatively voluminous stream of oxidizing gas which is discharged at a low velocity of flow through an "orifice elongated transversely of the direction of flow to provide a substantially sheet-like stream having a predetermined velocity." The sheet-like stream of oxidizing gas is directed at an acute angle against the preheated surface portion of the steel billet with its "longer transverse dimension" positioned "substantially parallel to said surface," and is moved parallel to the surface of the steel body and in the direction of the flow of the stream.

Appellants' application discloses a device for carrying out the method defined by the appealed claims, and it is stated therein that—

The curvature of the scarf may be controlled by the shape of the oxygen discharge orifice for any given projected length of orifice opening upon the work. It has been found that a nozzle having a circular orifice of a given diameter cuts a scarf with a smaller radius of curvature at the bottom than a nozzle having an oblong orifice [such as is defined by the appealed claims] with a major axis equal to the diameter of the circular orifice.

It is further stated in appellants' application that for making broad surface cuts, such as is contemplated by the method defined by the appealed claims, a nozzle having an oblong orifice discharges an oblong or ribbon-like column of oxygen which removes a greater area of surface of metal per cubic foot of oxygen consumed; that wider and smoother scarfs are thus produced, and

"fewer ridges [are] formed by the juncture of one scarf with another, and the tendency to form fins or slivers along these ridges or at the marginal edges of the scarf is reduced";

and that by advancing the stream of oxidizing gas in the direction of the flow of the stream, a uniform speed of operation may be maintained.

The patent to Walker relates to a torch tip adapted to be used in a cutting torch for gouging out seams or other defects in steel billets, and discloses a device quite similar to that disclosed in appellants' application. In the patentee's device, a voluminous stream of oxidizing gas having a low velocity is discharged through a round orifice, instead of an "orifice elongated transversely of the direction of flow" of the stream as in appellants' method. The patentee states:

In order to remove a seam or snake from a billet, the torch is held so that the tip is *directed obliquely to the surface of the billet and crosswise of the seam*, the stream of oxygen for gouging being caused to impinge against the surface at a distance from the seam. The oxygen stream, aided by the heating jets, burns the metal of the billet and blows away the oxide by a scooping action, *and as the tip is moved lengthwise of the seam a broad gouge is easily formed which entirely eliminates the defect and which will not close up in subsequent rolling. For this action, a comparatively large, low velocity outflowing stream of oxygen is desired.* [Italics not quoted.]

The patentee also states that "any suitable torch body of the cutting torch type may be employed."

It will be observed that the structure and the method disclosed in the Walker patent differ from the structure disclosed in appellants' application and the method defined by the appealed claims in two respects, to wit: (1) the orifice in the patentee's structure through which the oxidizing gas is discharged is round, whereas, in appellants' structure and in their claimed method, the orifice through which the oxygen is discharged is oblong or, as stated in the quoted claim, "elongated transversely of the direction of flow" of the stream of oxidizing gas; and (2) in the patentee's disclosure, although the tip of the torch is "directed obliquely to the surface of the billet," the torch is held or operated in such manner that the stream of oxidiz-

ing gas is directed crosswise of the defect in the metal surface to be removed, whereas, in appellants' method, the nozzle of the torch is moved in the direction of the flow of the stream of oxidizing gas.

In its decision, the Board of Appeals stated that the patent to Ross was not pertinent to the issues presented. Accordingly, that reference need not be considered here.

The patent to Crowe relates to a process for cutting a narrow kerf through a metal body by means of a narrow stream of oxidizing gas. The patentee's disclosure does not relate to the removal of defects in the surface of steel billets, and the method he discloses is entirely different from that defined by the appealed claims. That patent was cited solely for the purpose of showing the disclosure of a torch having an oblong orifice, that is, an orifice elongated transversely of the direction of the flow of the stream of oxidizing gas.

The record contains a patent to R. M. Rooke, Jr., No. 1,732,912, issued October 22, 1929, on an application filed June 2, 1928. It is stated in the brief of the Solicitor for the Patent Office that that patent was included in the record because reference was made to it in the Crowe reference patent. However, it was not cited as a reference, nor was it discussed in the decisions of the tribunals of the Patent Office. The patent relates to a method of removing defects from steel billets, and discloses, as does the Walker patent, the gouging out of defects by "burning the metal away in an oxygen stream scooping *crosswise of the defect.*" [Italics ours.] The patentee states that the "gouge" might be made of any width and of "sufficient depth." Nothing is said in the patent as to the form of the orifice in the nozzle. We have referred to that patent only because it is contained in the record and discussed in the briefs of counsel.

In its decision, the Board of Appeals stated that the patentee Walker, like appellants, disclosed the cutting of a broad gouge by using a

> "comparatively large, low velocity outgoing stream of oxygen * * * as well as auxiliary jets for preliminary heating of the metal,"

and that if the tip of the torch in the Walker patent

> "is moved lengthwise of the seam and blows away the oxide [as stated by the patentee], it would act just as appellants have described their action."

The Board also stated that, although the patent to Walker did not disclose an "orifice elongated transversely of flow" of the oxidizing gas, as called for by the appealed claims, the patent to Crowe suggested the use of such an orifice, and that there would be no invention in cutting the broad gouge disclosed by Walker by the use of the nozzle disclosed in the patent to Crowe. The Board concluded its decision by stating: "Moreover it would appear obvious to use the Walker nozzle in various positions to the work including that described by appellants."

It is evident from what has been said that the references do not disclose the method defined by the appealed claims. Nor is there any suggestion in the references of discharging a voluminous stream of oxidizing gas through an orifice elongated transversely of the flow of the stream and moving the stream in the direction of its flow for the purpose of removing defects from the surface of a steel billet, as called for by the appealed claims.

It is true that the Walker patent discloses the use of an oxidizing gas in a voluminous stream at a reduced velocity of flow obliquely to the surface of the billet to produce a broad gouge. However, the Walker patent teaches that the stream of oxidizing gas should be directed crosswise, and moved lengthwise, of the defect to be removed. A similar method is taught in the patent to Rooke. We are unable to agree, therefore, with the views expressed by the Board, that the method disclosed by Walker is similar to the method defined by the appealed claims.

If, as suggested by the Board, the torch in the Walker disclosure was provided with an orifice elongated transversely of the direction of the flow of the stream of oxidizing gas, disclosed in the patent to Crowe, the appealed claims would not be met because, if the teachings of Walker were followed, the stream of oxidizing gas would be directed crosswise of the defect in the metal surface and moved lengthwise thereof, instead of being moved in the direction of its flow as in appellants' method. Furthermore, it is obvious, as argued by counsel for appellants, that by following the teachings of Walker, with or without the suggested modification of the Walker device, the molten slag produced in the gouging process will be forced to one side of the defective surface and its heat wasted, whereas in appellants' method the molten slag is forced to flow directly ahead of the stream of oxidizing gas onto the surface of the metal to be removed and the heat from the molten slag aids in heating the metal surface to be removed. It is evident, therefore, that by appellants' method the scarfing or gouging of a shallow layer of surface metal from a steel billet can be accomplished more rapidly than by the prior art method.

That appellants' method is new and useful, is not questioned, and as it is neither disclosed nor suggested by the prior art, we are of opinion that it involves invention.

For the reasons stated, the decision of the Board of Appeals is reversed.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,697,754. (See Re. 17,114.)

1,706,611. (See Re. 17,114.)

1,706,612. (See Re. 17,114.)

1,719,101, 1,769,943, 1,787,145, L. B. Conant, Process of vulcanizing rubber to leather, filed Aug. 20, 1943, D. C., N. D. N. Y., Doc. 1340, *Standard Patent Process Corp.* v. *Endicott-Johnson Corp.*

1,769,943. (See 1,719,101.) 1,787,145. (See 1,719,101.)

1,836,741, W. Anderson, Filing machine; 2,192,788, Grob & Grob, same, C. C. A., 8th Cir., Doc. 12,506 and Doc. 12,507, *Continental Machines, Inc.* v. *B. Grob et al.* Decree affirmed, except that part sustaining claim 3 of 1,836,741 Dec. 15, 1931, which part is reversed; cause remanded to district court for dismissal of plaintiff's complaint for want of equity Aug. 4, 1943.

1,839,112. (See Re. 17,114.)

1,842,660. (See Re. 18,755.)

1,856,864. (See Re. 17,114.)

1,859,004. (See Re. 17,114.)

1,878,127, C. E. Gray, Frozen food product and method of making same, D. C., W. D. Mo. (Kansas City). Doc. 549, *Dairy Engineering Corp., Ltd., et al.* v. *DeRaef Corp. et al.* Stipulation and order dismissing case without prejudice Aug. 17, 1943.

1,932,041, H. Jacobson, Bailing press, D. C., E. D. Wis. (Milwaukee), Doc. 708, *Galland Henning Mfg. Co.* v. *Logemann Bros. Co.* Dismissed for want of equity (notice Aug. 20, 1943).

1,937,283. (See Re. 17,114.)

2,003,196, H. A. Jackson, Welding electrode holder, filed Aug. 16, 1943, D. C., E. D. Mich. S. Div., Doc. 3896, *The Thermex Equipment Co.* v. *H. A. Jackson.* Doc. 3897, *The Detroit Electrode Holder Mfg Co.* v. *H. A. Jackson.*

2,007,108, H. Bresnick, Medicinal preparation, appeal filed Aug. 21, 1943, C. C. A., 2d Cir., Doc. —, *E. S. Bresnick et al.* v. *U. S. Vitamin Corp.*

2,029,218. (See Re. 17,114.)

2,099,815, J. R. Lewis et al., Pre-cooling apparatus, D. C., E. D. La. (New Orleans), Doc. 504, *American Conditioners, Inc.* v. *A. M. Edwards, Inc.* Dismissed for lack of prosecution May 17, 1943.

2,118,011, 2,241,802, P. Zalkind, Container; 2,233,906, same, Container and part therefor; 2,245,026, same, Interlocking for container; appeal filed (notice Aug. 23, 1943), C. C. A., 2d Cir., Doc. —, *P. Zalkind* v. *S. Scheinman et al.*

2,192,788. (See 1,836,741.) 2,233,906. (See 2,118,011.)

2,241,802. (See 2,118,011.)

2,143,060, Dzialoschinsky & Deutschland, A solid stick-like shaving preparation, filed Aug. 19, 1943, D. C., S. D. N. Y., Doc. 22/197, *M. Goldman et al.* v. *The Delland Corp.*

2,245,026. (See 2,118,011.)

2,296,287, G. W. Leyde, Electric water light, filed Aug. 27, 1943, D. C., S. D. N. Y., Doc. 22/228, *G. W. Leyde* v. *Sculler Safety Corp.*

Re. 17,114, 1,697,754, F. H. Chandler, Toasting or cooking apparatus; 1,839,112, H. R. Mills, Electrical cooking machine; 1,856,864, E. C. Claus, Cooking device; 1,859,004, E. Reich, Heating device; 1,937,283, R. M. Markus, Cooking appliance; 2,029,218, A. Govoroff, Electrical machine; 1,706,611, C. P. Jaeger, Toasting device; 1,706,612, same, Cooking apparatus, filed Aug. 18, 1943, D. C., E. D. Pa., Doc. 3362, *The Griswold Mfg. Co.* v. *E. Reich.*

Re. 18,755 (of 1,842,660), F. J. Day, Air conditioning means, D. C. Ariz. (Phoenix), Doc. 204, *W. C. Phillips et al.* v. *Standard Precooling Co. et al.* Judgment for defendant Aug. 2, 1943, reversing judgment of district court entered June 8, 1942.

Des. 134,812, W. F. Drueke, Chessmen, filed Aug. 16, 1943, D. C., W. D. Mich. (Grand Rapids), Doc. 356, *W. F. Drueke* v. *F. W. Woolworth Co.*

Trade-Mark Registrations Canceled

257,591. Macaroni. A. Messuri & Son, New York, N. Y. Registered June 11, 1929. Canceled August 9, 1943.

267,291. Perfumed incense sticks for cigarettes and cigars. Shigetaro Takahashi, San Francisco, Calif. Registered February 18, 1930. Canceled September 2, 1943.

274,501. Corsets, girdles, brassieres, etc. The Van Orden Shop Inc., New York, N. Y. Registered August 26, 1930. Canceled August 9, 1943.

277,432. Preparation for dyeing hair. James Hatsuto Yamada, San Francisco, Calif. Registered November 11, 1930. Canceled August 9, 1943.

279,587. Cleaning compounds. Marval-Ac Co., San Jose, Calif. Registered January 20, 1931. Canceled September 2, 1943.

296,515. Imported cheese. Paul R. Forbriger, doing business as German American Import Co., New York, N. Y. Registered August 9, 1932. Canceled August 9, 1943.

298,281. Dog Food. B. W. Doyle, doing business as Doyle Packing Co., Los Angeles, Calif. Registered October 18, 1932. Canceled September 2, 1943.

313,609. Electrical fire alarms. Reno De Franceschi, Washington, D. C. Registered June 5, 1934. Canceled August 9, 1943.

315,508. Fresh vegetables. Mission Celery Distributors, Chula Vista, Calif. Registered July 31, 1934. Canceled September 2, 1943.

356,218. Yarns. Pepperell Braiding Company, East Pepperell, Mass. Registered April 19, 1938. Canceled August 9, 1943.

375,272. Fresh citrus fruits. Green & Gold Groves, Inc., Los Angeles, Calif. Registered February 13, 1940. Canceled August 9, 1943.

391,956. Dyes and dyestuffs. E. I. du Pont de Nemours and Company, Wilmington, Del. Registered December 2, 1941. Canceled September 2, 1943.

396,391. White shoe cleaning fluid. Consolidated Royal Chemical Corporation, Chicago, Ill. Registered July 14, 1942. Canceled September 2, 1943.

398,358. Books, pamphlets, circulars, etc. International Brotherhood of Teamsters, Chauffeurs, Stablemen & Helpers of America, Indianapolis, Ind., and Washington, D. C. Registered October 27, 1942. Canceled September 2, 1943.

399,461. Garment hangers. Rhodes Plastic Products Inc., New York, N. Y. Registered January 5, 1943. Canceled September 2, 1943.

Notice of Cancellation

U. S. PATENT OFFICE,
Richmond, Va., September 4, 1943.

Frank A. Minkler, his assigns or legal representatives take notice:

A petition for cancellation having been filed in this Office by Hoffmann-La Roche, Inc., Nutley, N. J., to effect the cancellation of trade-mark registration of Frank A. Minkler, 4035 Tuxedo Avenue, Detroit, Mich., No. 246,729, dated September 11, 1928, and the notice of such proceeding sent by registered mail to the said Frank A. Minkler, at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless said Frank A. Minkler, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING AUGUST, 1943

CHENEY BROTHERS *v.* MOSES FINDER CO., INC., Opposition No. 21,769.

In a decision rendered August 2, 1943 (166 Ms. Dec. 264, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Cheney Brothers, of South Manchester, Conn., to the application of Moses Finder Co., Inc., of New York, N. Y., for registration of a trade-mark for cravats, comprising the words "Debonair" and "Cravats," the latter being disclaimed, displayed in association with a figure described by the Examiner as "a silhouette of a man in evening dress." The mark, the First Assistant Commissioner stated, clearly is dominated by the word "Debonair." Applicant claimed use "since 1934."

Opposer relied upon its ownership of a registration of the word "Debonair" as a trade-mark for "woven, knitted, netted, textile, and pile fabrics in the piece comprised in whole or in part of silk," issued June 19, 1928, and upon its alleged continuous use of this mark on the goods named in the registration, and also on cravats, "since a date long prior to 1934."

The Examiner of Trade-Mark Interferences sustained the opposition on the ground that applicant's goods are of the same descriptive properties as those for which opposer's mark is registered, and that the two marks are confusingly similar. However, as to cravats, the Examiner concluded that opposer had failed to establish ownership of the registered mark.

The First Assistant Commissioner was of the opinion that the opposition was properly sustained on the ground stated in the decision of the Examiner. He said:

"The record discloses that opposer is a manufacturer of piece goods used by itself and others, including applicant, in making cravats. That cravats possess the same descriptive properties as the piece goods from which they are made seems to be fairly well established by the authorities cited in the examiner's decision, notably the case of *Kushner & Gillman* v. *Mayflower Worsted Co.*, 56 App. D. C. 165, 11 Fed. (2d) 462, where the Court of Appeals of the District of Columbia ruled that men's coats and suits are of the same descriptive properties as worsted fabrics used in their manufacture. Opposer's testimony with respect to the use of its mark on piece goods need not be considered, because the registration proves ownership of the mark, and ownership implies use. *Rosengart* v. *Ostrex Co.* (C. C. P. A.), 57 U. S. P. Q. 543."

The First Assistant Commissioner stated he was unable to agree with the Examiner that opposer had failed to prove ownership of the mark in question for cravats. He discussed this issue as follows:

"Opposer's use of the mark on such goods in 1932, and for several years immediately prior thereto, is conclusively evidenced by the testimony of opposer's witnesses, corroborated by documentary exhibits. Having thus established ownership antedating applicant's adoption in 1934 of the mark sought to be registered, the only further requirement was that opposer prove nonabandonment at the time its notice of opposition was filed. I think opposer's record satisfies that requirement.

"Opposer produced three witnesses who testified that opposer had sold neckties bearing the mark 'Debonair' continuously since 1928. These witnesses were opposer's vice president and general sales manager, the assistant manager of its cravat department, and its credit manager, all of whom had been in opposer's employ for more than thirty years. Their testimony is mutually corroborative, and stands uncontradicted in the record. The Examiner, however, was unwilling to accept it as proof. In his decision he said:

" 'It is true that each of the three witnesses who testified on behalf of opposer states that the mark "Debonair" or a label similar to the label of exhibits 4 and 5 was used continuously from 1928 to date. These witnesses, however, do not define what they mean by the statement "continuously" or "since 1928" and it might well be that this general statement merely refers to the fact that "Debonair" was used until 1932 and then used again as part of the mark "Rio Debonairs" some ten years later in 1942. In view of the utter lack of any documentary evidence indicating any use of this mark during the period of ten years from 1932 to 1942 and the lack of any explanation of the absence of such evidence, the Examiner is of the opinion that opposer has failed to sustain its burden in establishing continuous use of the notation in question. Accordingly, in so far as regards ties the Examiner is of the opinion that the opposer has failed to establish that the mark "Debonair" was "owned and in use" by it at or about the date of filing of the notice of opposition.'

"It seems to me that the expressions 'continuously from 1928 to date' and 'continuously since 1928' are self-defining, and that the meaning intended to be conveyed by opposer's witnesses is perfectly clear, namely, that opposer had commenced to use the word 'Debonair' as a trade-mark on its neckties in 1928, and had continued such use without substantial interruption from that time until the day their testimony was given in July, 1942. There is no documentary evidence of actual sales subsequent to 1932; but as was pointed out by the Court of Appeals of the District of Columbia in *Macauley* v. *Malt-Diastase Co.*, 55 App. D. C. 277, 4 Fed. (2d) 944:

" 'Proof may be established either by oral testimony or by documentary evidence. One is as competent as the other, and if the oral testimony is sufficient to establish proof, documentary evidence is unnecessary, whether such evidence be in the possession of the party or not.' "

HOFFMANN-LA ROCHE, INC., *v.* ROCH D. KAWERK, Opposition No. 21,907.

In a decision rendered August 3, 1943 (166 Ms. Dec. 267,—U. S. P. Q.—), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby dismissed the opposion of Hoffmann-La Roche, Inc., of Nutley, N. J., to the application of Roch D. Kawerk, of Birmingham, Ala., for registration of a mark consisting of the word "Rox" centered over the hyphenated word "Rox-Salve," the word "Salve" being disclaimed, for a specific kind of pharmaceutical preparation, namely, "salve useful in the treatment of head and chest colds, nasal congestion, and as an antiseptic dressing for minor cuts or insect bites." Applicant claimed use since November 29, 1941.

The opposition was based on, and the Assistant Commissioner stated that the record established, use and registration by opposer since prior to applicant's first use of its mark of a mark consisting of the word "Roche" broadly for chemical products

for use in medicine and pharmacy, disinfectants and perfumes. It was testified on behalf of opposer, the Assistant Commissioner said, that opposer manufactures an extensive line of products which can be useful in almost any human ailment that is known, including colds, cuts and wounds, the products being put up in various dosage forms, including the salve form, and that all the products are marketed under different specific trade-marks and, in addition to those specific trade-marks, the trade-mark "Roche" is also used as a general or house mark.

The Assistant Commissioner held that the respective marks of the parties are applied to identical goods. He also held that opposer's mark "Roche" and the repeated word "Rox" of applicant's mark appear to be merely fanciful and arbitrary words having no ordinary or suggestive meaning, and that accordingly they have no similarity in meaning. He stated that in appearance the mark

Rox
" Rox Salve "

is so radically different from the mark "Roche" that, in his opinion, they would not be confused because of their appearance.

The Assistant Commissioner then considered at length whether purchasers would be likely to be misled or confused by the sounds of the mark. He said:

"It is recognized that similarity in sound alone is sufficient to constitute confusing similarity between marks. *Traders Oil Mill Company* v. *Lever Brothers Company*, 26 C. C. P. A. 899, 100 Fed. (2d) 249, 504 O. G. 291. The general rule for determining confusing similarity in sound is stated in *Oakite Products, Inc.* v. *H. Kirk White & Co.*, 27 C. C. P. A. 712, 107 Fed. (2d) 590, 511 O. G. 273, as follows:

" 'The rule of phonetic resemblance, if it may be so designated, should not be applied because of a mere possibility of occasional confused enunciation of words. There should be a reasonable probability at least.'

"In the latter case the court did not think probability of confusion in sound between the mark 'So-White Hand Cleaner' and the mark 'Oakite,' both applied to cleaning preparations, should be assumed.

"The preparations of both parties are such as are put up and sold in individual packages so that purchasers have the opportunity of seeing the trade-marks which are applied thereto. This would tend to prevent purchasers from being deceived or misled as to the manufacturer of the goods actually received by the purchaser. But it may be that some neophyte purchasers have never seen either mark and act on verbal recommendations of 'Roche' products or 'Rox Rox Salve' (or possibly 'Rox Salve'). The question is: Would such purchasers be likely to be misled or confused by the sounds of the marks?

"It is common knowledge that preparations for ailments besides colds, cuts and burns are put up in the form of salve, and since opposer's filed testimony indicates that opposer's line of products includes products 'useful in treating almost any human ailment that is known' opposer's line includes such other salves. Accordingly purchasers desiring a particular preparation, or even a particular salve, of opposer's manufacture would not be likely to ask for the preparation by the name 'Roche' or the words 'Roche salve' alone, but would also name the specific trade-mark applied thereto in addition to the house or general mark 'Roche,' or would also state the nature of the preparation, or both. The particular preparation desired would not be adequately identified merely by 'Roche' or 'Roche salve', or by 'Rox salve' if misunderstood as 'Roche Salve'. On the other hand the words 'Rox salve' identify a particular product of applicant's, the words being so used in the directions appearing on the specimens of cartons filed with the application. However, as stated before, it appears that no product is likely to be called for by the terms 'Roche' or 'Roche salve', and therefore confusion of 'Roche salve' for 'Rox salve' in sound is unlikely.

"Applicant's trade-mark, however, is 'Rox Rox Salve', and the mark must be considered in its entirety, even though 'Rox Rox' thereof is recognized as more dominant therein than the disclaimed descriptive word 'salve'. Thus comparing the marks as to sound, and recognizing that applicant's salve may be called for by the term 'Rox Salve', nevertheless, considering that opposer's mark is a general or house mark which is applied to an extensive line of products so that opposer's products are not likely to be called for by the word 'Roche' or by the expression 'Roche salve' alone, it is my opinion that whatever similarity in sound there may be between the word 'Roche' and the notation 'Rox Rox Salve', or its abbreviated form 'Rox Salve', the similarity is not such that the notation 'Rox Rox Salve' or 'Rox salve' when spoken indicates opposer or opposer's products nor is such as would be likely in any way to create confusion or mistake in the mind of the public or to deceive purchasers or to cause opposer damage. In my opinion the notice of opposition should be dismissed."

FRANCIS REDFERN *v.* BRUNSWIG DRUG CO., Cancellation No. 4011.

In a decision rendered August 5, 1943 (166 Ms. Dec. 272,—U. S. P. Q.—), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the petition of Francis Redfern, of Tadworth, Surrey, England, to cancel trade-mark registration No. 391,121, issued October 21, 1941, under the provisions of the act of March 19, 1920, to Brunswig Drug Co., of Los Angeles, Calif.

The First Assistant Commissioner stated that the only ground for cancellation pleaded in the petition is in effect that respondent's right to the involved registration is barred by final judgment in an opposition proceeding between the same parties, where petitioner's opposition to the registration of respondent's mark under the provisions of the act of February 20, 1905, was sustained.

The First Assistant Commissioner concluded that the doctrine of res judicata did not apply. In coming to that conclusion, he said:

"The registered mark is the word 'Redfern,' and the goods to which it is appropriated are described in the registration as 'whiskey.' The application upon which the registration issued was originally filed under the act of 1905. It was opposed by petitioner, whose opposition was sustained by the Examiner of Interferences on the ground that the mark sought to be registered was petitioner's name. Thereafter, by appropriate amendment, the application was brought under the act of 1920, and was granted by the Examiner of trade-marks.

"Petitioner cites several cases to the point that decisions in prior opposition proceedings are controlling in cancellation proceedings involving the same parties and the same subject matter. All of these cases, however, pertain to cancellation proceedings under the act of 1905; and in each the doctrine of res judicata was applied because the issues presented either had been, or might have been, determined in the opposition proceeding.

"In a cancellation proceeding under the act of 1920, the rule is necessarily of limited application. Where an opposition is predicated upon alleged confusing similarity between the opposer's trade-mark and the mark sought to be registered, the decision is conclusive in any subsequent proceedings involving the registrability of the same mark under the act of 1920. See *Frankfort Distilleries, Incorporated* v. *Dextora Co.*, 26 C. C. P. A. 1244, 103 Fed. (2d) 924. But in the opposition here relied upon, that question was not presented. As correctly stated by the Examiner of Interferences in his decision in that proceeding:

" 'The allegations of fact contained in the notice of opposition relate to and seek to draw in the name clause of section 5(b) of the act of 1905 as the sole statutory ground for negativing the right of registration claimed by the applicant (section 7).'

"The so-called name clause to which the examiner referred prohibits the registration of marks which consist 'merely in the name of an individual * * * not written, printed, impressed, or woven in some particular or distinctive manner, or in association with a portrait of the individual.' The act of 1920 contains no such prohibition, but expressly provides for the registration, subject to certain exceptions that are not pertinent here, of 'marks not registrable under the act of February 20, 1905.' It thus appears that petitioner's opposition to the

registration of respondent's mark under the act of 1905 was instituted and decided upon a statutory ground that was in no way relevant to the question of registrability under the act of 1920, and that respondent's rights under the latter act were not and could not have been determined."

FRANCIS REDFERN *v.* BRUNSWIG DRUG CO., Cancellation No. 4012.

In a decision rendered August 5, 1943 (166 Ms. Dec. 271,—U. S. P. Q.—), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the petition of Francis Redfern, of Tadworth, Surrey, England, to cancel trade-mark registration No. 392,056, issued December 2, 1941, under the provisions of the act of March 19, 1920, to Brunswig Drug Co., of Los Angeles, Calif.

The First Assistant Commissioner stated that the registered mark, applied to whisky, includes respondent's corporate name and certain descriptive matter, but is dominated by the word "Redfern." He also stated that the following facts, pleaded and relied on by petitioner, are stipulated in the record:

"That the opposer [petitioner], Francis Redfern, is an executive officer, to wit a director, of The Distillers Company Limited, a limited liability company located at London, England, with which company opposer [petitioner] has been associated for many years; said company and its predecessors have for more than a generation been engaged in the sale of Scotch whiskies in all parts of the civilized world, including the United States of America, and opposer's [petitioner's] connection with said company is well known to dealers in spiritous liquors in the United States.

"That Redfern is and has always been the family name of the opposer [petitioner]."

It is further stipulated, the First Assistant Commissioner said, that respondent's mark was adopted "without knowledge of the opposer [petitioner] and in the belief that it was an arbitrary mark," and has been used by respondent and a predecessor in business "since at least as early as 1903."

In agreeing with the Examiner of Trade-Mark Interferences that the petition should be dismissed, the First Assistant Commissioner stated:

"It will be observed that petitioner himself is not directly engaged in the liquor business, and that neither he nor the company with which he is connected has used his name as a trade-mark. Nor does it appear that petitioner's connection with the company preceded respondent's first use of the mark. It is thus difficult to perceive any theory upon which petitioner may 'deem himself injured,' within the meaning of section 2 of the act of 1920, by the registration sought to be canceled.

"The section referred to authorizes cancellation only when it is made to appear 'that the registrant was not entitled to the exclusive use of the mark at or since the date of his application for registration thereof, or that the mark is not used by the registrants or has been abandoned.' Petitioner pleaded, and now argues, that because 'Redfern' is an 'ordinary surname,' and more particularly because it is the surname of petitioner, respondent is not entitled to its 'exclusive use.' As employed in the statute, however, the term 'exclusive' has reference to use as a trade-mark upon the goods for which the mark is registered. *Technicolor, Inc.* v. *Koh-I-Noor Bleistiftfabrik L. & C. Hardtmuth*, 507 O. G. 1044, 43 U. S. P. Q. 17; *Certain-Teed Products Corporation* v. *Clark*, 337 O. G. 476, 1925 C. D. 57. And the record here presented does not, in my opinion, negative respondent's exclusive right to use the name 'Redfern' as a trade-mark for whisky."

SERVEL, INC. *v.* UNIVERSAL SLIDE FASTENER COMPANY, INC., Cancellation No. 3900.

In a decision rendered August 9, 1943 (166 Ms. Dec. 275,—U. S. P. Q.—), *Assistant Commissioner Van Arsdale* passed upon a petition by Servel, Inc., of New York, N. Y., for reconsideration of his decision of May 8, 1943 (551 O. G. 738, 57 U. S. P. Q. 330).

In that earlier decision the Assistant Commissioner affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the petition of said Servel, Inc., for cancellation of a registration of the word "Serval" for slide fasteners, issued on March 4, 1941, under the act of March 19, 1920, to Universal Slide Fastener Company, Inc., also of New York, N. Y.

The complete decision of the Assistant Commissioner upon the petition for reconsideration reads as follows:

"Opposer, Servel, Inc., petitions for reconsideration of my decision of May 8, 1943, asserting that the decision failed to consider opposer's contention that a business corporation is an organization and therefore the restrictions of the trade-mark statutes as to registration of names of organizations apply also to names of business corporations.

"The act of 1905 makes certain provisions where it uses the word 'organization' and gives certain qualifications for registration, and makes other provisions where it uses the word 'corporation' and there gives different qualifications for registration. It has long been recognized that a business corporation is not embraced by the term 'organization' as used in the act. The failure to couple the word 'corporation' with the word 'organization' in the act appears to have been intentional and neither the intent or the wording of the act appears to be such as to apply to the registration of names of business corporations the qualifications and restrictions applied to registration of the names of organizations in addition to those applied to registration of names of business corporations.

"In Ex parte Gallaher Limited, 1925 C. D. 132, 340 O. G. 842, Dr. Kinnan, as First Assistant Commissioner, said:

"'The bar of registration of corporate names, found in the act of 1905, is not carried forward into the 1920 act if the interpretation of such act as set forth in the opinion of the Solicitor of the Department of the Interior, 277 O. G. 181, 1920 C. D. 89, is accepted.'

"In *Certain-teed Products Corporation* v. *Clark*, 1925 C. D. 57, 337 O. G. 476, Assistant Commissioner Fenning stated as follows:

"'Those marks inhibited from registration under the act of 1920 as defined by the Solicitor do not include marks which are merely the name of an individual or a corporation.'

* * * * * * *

"'The mere use of a corporate name as the name of a corporation will not prevent establishing a trade-mark right to the same name by using it in commerce on goods different from those dealt in by the corporation. When that trade-mark right has been established, the mark may be registered under the act of 1920.'

"The petition for reconsideration is granted but the previous decision is believed to be correct and is adhered to."

SOLAR CORPORATION *v.* GREAT LAKES VARNISH WORKS, INC., Opposition No. 21,687.

In a decision rendered August 11, 1943 (166 Ms. Dec. 276,—U. S. P. Q.—), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Solar Corporation, of Milwaukee, Wis., to the application of Great Lakes Varnish Works, Inc., of Chicago, Ill., for registration of the mark "Super Solarex" for ready-mixed paints, paint enamels and varnishes. The application, the Assistant Commissioner said, states that the mark has been used on said goods in applicant's business since April 17, 1941.

The Assistant Commissioner stated that opposer alleged and had established its use on identical goods of a mark consisting of the word "Solar" since prior to the earliest date of use asserted in applicant's application. Opposer also contended, he said, that applicant's mark "Super Solarex" is such

an appropriation of opposer's corporate name, Solar Corporation, that the name clause of Section 5 of the act of 1905 bars registration of applicant's mark.

The Assistant Commissioner considered together the questions whether "Super Solarex" and "Solar" as applied to identical goods are confusingly similar and whether "Super Solarex" is such an appropriation of opposer's corporate name as to bar its registration. On these matters he had the following to say:

"As to the corporate name clause, the general rule where the mark in question is not the same as the name of the corporation is that the right to registration depends on whether or not it appears that the appropriation of the corporate name 'is of such character and extent that, under the facts of the particular case, it is calculated to deceive the public to the injury of the corporation to which the name belongs.' *American Steel Foundries v. Robertson et al.*, 269 U. S. 372, 1926 C. D. 289, 342 O. G. 711.

"Here 'Solar' is the identifying name of Solar Corporation; the word 'Corporation' merely indicating the corporate status. Applicant's mark is 'Super Solarex'.

"To my mind the principal question is whether 'Super Solarex' and 'Solar' when applied to the identical goods are or are not confusingly similar and that the answer must be the same when the word 'Solar' is considered as a trade-mark as when the word is considered as the identifying name of the corporation. The words remain the same in either case.

"The words must be considered in their entireties. However, the word 'Solarex' is very prominent in applicant's mark and is so similar in appearance and sound to the word 'Solar' that in my opinion the concurrent use of 'Super Solarex' and 'Solar' on the identical goods on which they are used would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers and to cause injury to opposer. Accordingly it is my opinion that there not only is confusing similarity between 'Super Solarex' and opposer's trade-mark 'Solar' but also that 'Super Solarex' is an appropriation of opposer's corporate name of such character and extent as to negative applicant's right to the registration for which it has applied."

In his decision the Assistant Commissioner also passed upon a number of subsidiary questions. These questions were raised by motions and arose from the offer by applicant of evidence to show that it had used the mark "Solarex" for ready-mixed paints, varnishes and paint enamels since prior to opposer's earliest date of use of its mark and prior to the date of opposer's incorporation as Solar Corporation. In discussing these questions, the Assistant Commissioner said:

"Opposer duly noted objections to the testimony and proofs offered by applicant tending to establish the use by applicant of the mark 'Solarex' prior to April 17, 1941, which is the earliest date of use stated in its application, and moved to strike such testimony from the record on the ground that applicant had not pleaded such earlier use. The Examiner sustained opposer's objections to the testimony and proofs and granted opposer's motion to strike, holding that the testimony and proofs were directed to an affirmative defense and varied materially from anything that was pleaded.

"Applicant had moved to amend its answer, but not until after opposer's testimony in chief had been closed, and the Examiner considered that the motion was not timely and no good and sufficient excuse had been shown for applicant's failure to earlier present the motion. With regard to such motions the Examiner has a wide discretion, and under the circumstance here present his ruling on the motion to amend will not be disturbed.

"In my opinion the Examiner was also justified in granting opposer's motion to strike applicant's testimony and proofs relating to applicant's use of a mark 'Solarex' prior to the earliest date of use stated in applicant's application. The application makes no reference to any use of the mark 'Solarex', and the answer does not assert the use by applicant of the mark 'Solarex', or of the mark 'Super Solarex', for that matter. Applicant points to the allegation in the notice of opposition as to confusing similarity between 'opposer's name and trade-mark "Solar" and the trade-mark "Solarex" or "Super Solarex"', but there is no allegation in the notice of opposer's use of the mark 'Solar' prior to applicant's use of 'Solarex.' Neither in the application nor in the answer does there appear to be any foundation for the introduction of testimony of applicant's use of the mark 'Solarex' prior to April 17, 1941.

"The Examiner further points out that the mark 'Solarex' is not the same as the mark 'Super Solarex' which applicant is now seeking to register. That applicant also considers these marks to be different is indicated by the statement of applicant's witness Goldberg that 'The Super Solarex label, and the Solarex label stand out in comparison as day to night' and from the statement in applicant's Exhibit No. 10 which is a circular letter to opposer's customers, as follows:

"'We know that for years our SOLAREX label failed to merit our customers' approval. Therefore, we finally called in one of the best label artists obtainable and the outcome is the new SUPER SOLAREX LABEL attached.'

"As stated in *Andrews Radio Company v. Timmons Radio Products Corporation*, 1926 C. D. 39, 345 O. G. 798:

"'It must be fairly established that matters not pleaded can not ordinarily be considered in a notice of opposition. This is the general and accepted rule of equity pleading.'

"This rule requires that to be considered the affirmative defense must be pleaded, and this applicant has failed to do."

ABBOTT LABORATORIES *v.* PREMO PHARMACEUTICAL LABORATORIES, INC., Opposition No. 21,545.

In a decision rendered August 12, 1943 (166 Ms. Dec. 280, —U. S. P. Q.—), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Abbott Laboratories, of North Chicago, Ill., to the application of Premo Pharmaceutical Laboratories, Inc., of New York, N. Y., for registration of the word "Enerels" as a trade-mark for "enteric-coated medicinal tablets designed to disintegrate in the upper intestinal region and used generally in glandular therapy."

Opposer relied upon its ownership of the trade-mark "Enterabs," for "orally administered medicaments for intestinal treatment and provided with an enteric coating in the form of an envelope made of synthetic resin."

No testimony was taken by either party, but applicant stipulated that certain facts pleaded in the notice of opposition "may be taken as true." With reference to one fact so pleaded, the First Assistant Commissioner stated:

"One such fact is that the labels attached to the notice, eleven in number, are 'typical specimens' of labels in use by opposer bearing its registered mark. These labels indicate, as stated in applicant's brief, that opposer's mark 'is not applied to any particular medicinal preparation, but is rather a generic name for tablets having an enteric coating.' As further stated in the brief:

"'Thus the labels show that these "Enterabs" may be tablets of ammonium chloride, ferrous sulfate, acriflavine, etc. This is of crucial importance because it is clear from this fact that no pharmacist or other authorized dispenser of drugs or medicinal preparations would know what the doctor or prescription calls for if the name "Enterabs" alone were mentioned. For standing alone it can have no significance other than enteric coated tablets.'

"But I think that is equally true of applicant's mark. The specimen labels filed with the application, to 'show the trade-mark as actually used upon the goods,' are for 'Aminophylline Enerels;' and it is there explained that 'the word "Enerel" describes a type of enteric-coated tablet manufactured by Premo Pharmaceutical Laboratories, Inc.' Aminophylline is a well-known diuretic and heart stimulant, sold under that name by many manufacturing druggists. It may or may not be useful in glandular therapy, but obviously it is not the only item intended to be included in applicant's description of goods. If it were, the description would properly read 'enteric-coated aminophylline tablets.' I think the record fairly supports a finding that the marks of both parties are applied to a line of enteric-coated tablets, and that in using either mark it is necessary to add the name of the particular item desired, as, for example, 'aminophylline Enerels,' or 'acriflavine Enterabs.'"

In then considering whether the marks of the parties are confusingly similar, the First Assistant Commissioner said:

"Applicant concedes that opposer's goods are in part substantially identical with its own, but points to the fact that the products of both parties are recommended for use 'only by or on the prescription of a physician,' and argues that there is thus less likelihood of confusion than if sales were made to the general public. It is, of course, unlikely that a doctor would confuse the two marks, because he is trained to distinguish between competitive medicaments. But there is no proof that these products may not be purchased over the counter by the ultimate consumer. They appear to be stock items, packaged and ready for sale. A purchase might be made from memory to replenish a supply previously prescribed, or upon oral recommendation of the patient to a fellow sufferer. Under such circumstances I think the danger of confusion would be great, for it is apparent, as observed by the Examiner, that the two marks 'Enterabs' and 'Enerels' are 'quite similar in appearance and pronunciation.'

"Cases are cited by applicant where various pairs of somewhat similar trade-marks have been held not confusingly so, and it must be conceded that the marks involved in some of those cases were comparable in that respect with those here under consideration. But in each case the goods to which the marks were respectively applied were specifically different, while here they are in part identical."

GENERAL CHEMICAL COMPANY *v.* GARDEN PRODUCTS COMPANY, Opposition No. 21,392.

In a decision rendered August 13, 1943 (166 Ms. Dec. 282, —U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of General Chemical Company, of New York, N. Y., to the application of Garden Products Company, of St. Louis, Mo., for registration of the word "Zotox" as a trade-mark for "crab grass and chickweed killer."

The opposition was predicated upon opposer's ownership of the registered trade-mark "Zintox," for "insecticides and preparations for control of plant pests."

The First Assistant Commissioner concluded that the goods of the parties possess the same descriptive properties and that their marks are confusingly similar. He stated:

"It appears from opposer's evidence that the products of both parties are arsenical preparations, which are intended to be dissolved in water and applied by means of a sprayer. They are sold through the same dealers to the same class of purchasers, and are closely related in use. Opposer's product is in solid form while applicant's is a liquid. But there is no limitation in that regard, either in opposer's registration or in the opposed registration; and it seems obvious that a change from solid to liquid, or vice versa, would be merely a matter of choice. Clearly the two items belong to the same class of merchandise and have the same descriptive properties, and their sale under identical or closely similar trade-marks would be reasonably likely to result in confusion as to their origin.

"Manifestly, the words 'Zintox' and 'Zotox' are very nearly alike, both in appearance and in sound. I agree with applicant that the syllable 'tox,' standing alone, is descriptive of the goods of both parties; but that does not mean that it may be disregarded in comparing the marks as a whole. Nor is it of material importance that opposer's labels include an additional trade-mark. That again is a matter of choice, and the practice may be discontinued at will. Opposer must be presumed to own its 'Zintox' mark as registered, and in my opinion applicant's mark so nearly resembles that mark 'as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers.'"

THE ELDER & JOHNSTON COMPANY *v.* LEHMAN-BAER CO., INC., Opposition No. 21,735.

The Elder & Johnston Company, of Dayton, Ohio, opposed the application of Lehman-Baer Co., Inc., of Baltimore, Md., for registration of the mark "Topper Togs," the word "Togs" being disclaimed, for boys' and girls' summer suits, sport shirts, overalls and dresses, upon the basis of a trade-mark registration, No. 341,131, issued to opposer December 1, 1936. The mark of this registration consists of the words "Topper Shop" above the name "Elder's," and the goods named in the registration are hats for women and girls.

The Examiner of Trade-Mark Interferences sustained the notice of opposition and adjudged applicant not entitled to the registration for which it had applied. Appeal was taken by the applicant to the Commissioner of Patents. Following the hearing of this appeal, the parties filed a joint stipulation and request that applicant be permitted to withdraw its appeal, that the decision of the Examiner of Trade-Mark Interferences be vacated, and that the notice of opposition be dismissed without prejudice.

In a decision rendered August 14, 1943 (166 Ms. Dec. 283, —U. S. P. Q. —), *First Assistant Commissioner Van Arsdale* acted as follows upon said stipulation and request:

"In view of the stipulation and request of the parties, applicant's appeal with regard to the notice of opposition is dismissed and the decision of the Examiner of Trade-Mark Interferences, in so far as it sustains the notice of opposition, is vacated and the notice of opposition is dismissed without prejudice.

"However, since in my opinion the registration of applicant's mark is properly subject to ex parte refusal in view of said Registration Number 341,131, because the mark is confusingly similar to the mark of said registration and is applied to goods of the same descriptive properties, the decision of the Examiner of Trade-Mark Interferences in so far as it adjudges applicant not entitled to the registration for which it has made application is affirmed."

EX PARTE SUMMIT BRASS AND BRONZE WORKS, INC., Serial No. 431,135.

In a decision rendered August 16, 1943 (166 Ms. Dec. 287, —U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration to Summit Brass and Bronze Works, Inc., of North Bergen, N. J., of a mark for "metallic tabernacle safes," comprising the words "Agnus Dei" and a pictorial representation of the Agnus Dei.

The Examiner refused the registration applied for on two grounds. He held the mark to be non-registrable because comprising "scandalous matter" within the meaning of section 5(a) of the act of February 20, 1905, and because devoid of trade-mark significance in relation to the goods described in the application.

The First Assistant Commissioner considered either one of the two grounds relied upon by the Examiner for refusing registration independently sufficient. He stated:

"To commercialize an emblem of such highly sacred religious significance would, I think, be offensive to most individuals of the Christian faith, and thus scandalous within the meaning of the statute. In re Riverbank Canning Co., 25 C. C. P. A. 1028, 95 Fed. (2d) 327. Nor am I

able to agree with applicant's counsel that the religious character of the merchandise to which the mark is applied warrants the proposed registration. It is applicant's attempted appropriation of the mark to indicate commercial origin that is objectionable. Counsel asserts that applicant's conduct in that respect has the apparent approval of the Catholic clergy, and that 'the fact that the article is ordered and purchased through the use of this name by priests and bishops clearly proves that it is unobjectionable from a religious standpoint.' There is no evidence, however, that such purchasers regard the Agnus Dei as a trade-mark. In fact, it seems incomprehensible that they could so regard it.

"By the same token, it is my opinion that neither the words nor the picture of applicant's mark are capable of trade-mark significance when applied to any article in the nature of religious paraphernalia. They are so commonly used for purposes of sacred adornment that their appearance on a metallic tabernacle safe would inevitably impress the Christian observer as nothing more than appropriate embellishment."

EX PARTE FAWCETT PUBLICATIONS, INC., Serial No. 444,826.

In a decision rendered August 16, 1943 (166 Ms. Dec. 288, —U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Fawcett Publications, Inc., of Greenwich, Conn., of the mark "Spy Smasher" for a monthly periodical. Registration was refused by the Examiner in view of a prior registration issued to Magazine Publishers, Inc., of the mark "Spy" for goods named in the registration as "a magazine published monthly and at other intervals".

Applicant stated that presently it is applying the name "Spy Smasher" to a comic cartoon magazine. The Assistant Commissioner noted, however, that applicant is seeking registration of the mark for all types of monthly publications, and he concluded that the concurrent use of the two marks "Spy Smasher" and "Spy" on monthly publications would be likely to cause confusion and deception of purchasers and the public.

Applicant raised the question of abandonment and relied upon an affidavit furnished by the registrant, Magazine Publishers, Inc., in response to an inquiry from the Examiner. From that affidavit, which was made by the president of said corporation, the Assistant Commissioner quoted the following portion:

"That Magazine Publishers, Inc., is the owner of the Trade-Mark "Spy", which was registered on April 2, 1935 and Cert. No. 323,107 issued thereon by the United States Patent Office.

"That on June 29, 1942, Magazine Publishers, Inc. received a communication from the Examiner in charge of this registration, advising that an application was filed by Fawcett Publications, Inc., on June 25, 1941, Ser. No. 444,826 for the registration of a Trade-Mark similar to "Spy". Your deponent states that Magazine Publishers, Inc. has not abandoned, nor has it any intention of abandoning its said Trade-Mark "Spy" as the title of a magazine.

"Deponent further states that during the years 1928 and 1929, Magazine Publishers, Inc. published a magazine bearing the title "Spy"; thereafter, from the years 1934, 1935 and 1936, it published periodically magazines under the titles "Spy Stories" and "Spy Novels". That although it has not published any magazine bearing the title "Spy" since 1937, it has, nevertheless, not abandoned the title, and has every intention, as soon as the marketing conditions are right for the publication of a magazine under the title "Spy", to resume its use as the title of a magazine."

In discussing the question of abandonment, the Assistant Commissioner stated:

"The fact that the registrant is not using the mark now and was not using the mark of the registration at the time applicant filed its application, does not in itself necessarily establish as a matter of law that the registration and the mark thereof has been abandoned by the registrant. *Dubonnet Wine Corp. v. Ben-Burk, Inc.*, 28 C. C. P. A. 1298, 121 F.(2d) 508, 533 O. G. 753. In that case it was held that a registrant had not lost ownership of a registration or of the mark thereof even though it had stipulated that it was not engaged in any commercial business whatsoever in connection with the manufacture or sale of commodities and was not using the mark and that the mark was being used by another company and no assertion was made that the registrant intended to use or to resume use of the mark in the future. The court said:

"'It is apparent, therefore, that we should give no effect in this case to appellant's concession that it is not actively engaged in any commercial business.

"'For the reasons herein expressed, the decision of the Commissioner of Patents that the registrations pleaded in the notice of opposition constitute no bar to the registration of applicant's mark is reversed.' (Underline added.)

"The registrant corporation is still in existence and it does not appear that it is not continuing to publish magazines, and in view of the affidavit of its president that it has not abandoned and has no intention of abandoning the trade-mark for a magazine and has every intention to resume its use, I agree with the Examiner that the registration and the mark thereof should not be held abandoned as a matter of law and bars the granting of the registration for which applicant has applied."

EX PARTE TIDY PRODUCTS CORPORATION (Tidy Products Co., Assignee, substituted), Serial No. 440,068.

In a devision rendered August 18, 1943 (166 Ms. Dec. 292, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration under the provisions of the act of February 20, 1905, to Tidy Products Corporation, of New York, N. Y., (Tidy Products Co., assignee, substituted), of the notation "Chill-Gard," as a trade-mark for "an infant's or child's sleeping garment."

The First Assistant Commissioner agreed with the Examiner that the mark is nonregistrable because descriptive of the goods, saying:

"It is now well settled, so far as the Patent Office is concerned, that a mark which describes 'the intended purpose and function of the goods on which it is used' is descriptive of the character or quality of such goods within the meaning of the statute. See *In re General Permanent Wave Corporation*, 28 C. C. P. A. 1099, 118 Fed. (2d) 1020, and authorities there cited. That applicant's mark is in that sense descriptive seems clear."

EX PARTE TIDY PRODUCTS CORPORATION (Tidy Products Co., assignee, substituted), Serial No. 424,144.

In a decision rendered August 18, 1943 (166 Ms. Dec. 290, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration under the provisions of the act of February 20, 1905, to Tidy Products Corporation, of New York, N. Y., (Tidy Products Co., assignee, substituted), of the notation "Robe-N-Hood." The Examiner refused registration on the ground that the mark is descriptive of the goods to which it is appropriated.

The First Assistant Commissioner stated that the goods are described in the application as "infants' garments, namely, sleeping bags, bonnets, and combinations of bonnets and sleeping bags." Applicant, he said, offered to amend this description to read "bunting." The attitude of the First Assistant

Commissioner toward the proposed amendment was expressed as follows:

"In Webster's New International Dictionary this word is defined as 'an outdoor garment for infants, as a large, loose envelope with hood attached.' While the proposed change from sleeping garments to outdoor garments would be in some respects rather violent, I doubt that it would alter the case from a trade-mark standpoint. Moreover, the amendment would be at variance with applicant's showing of record that its goods are in fact sleeping garments."

In his decision the First Assistant Commissioner quoted the following portion of the Examiner's statement on appeal:

"The Examiner regards the notation 'Robe-N-Hood' as phonetically equivalent to the expression 'Robe and Hood.' Whether applicant's goods are accurately or inaccurately described as robes and hoods, is not believed to be material, since infants' robes and hoods are clearly of the same descriptive properties as sleeping bags and bonnets."

With respect to the position thus taken by the Examiner, the First Assistant Commissioner then added:

"Applicant has disclaimed the word 'Robe' and the word 'Hood' apart from the mark as shown, so that nothing is left that may be considered arbitrary with the possible exception of the two hyphens and the letter 'N,' and these are overshadowed to the point of insignificance. *Martell & Co.* v. *Societe Anonyme de la Benedictine*, 28 C. C. P. A. 851, 116 Fed.(2d) 516. However, I think the public, like the Examiner, would be likely to regard the letter 'N' as a contraction of the word 'and,' with the result that the mark as a whole is not only descriptive but is actually the name of the goods."

MONTGOMERY WARD & CO., INCORPORATED, *v.* THE FIRESTONE TIRE & RUBBER COMPANY, Opposition No. 20,339.

In a decision rendered August 20, 1943 (166 Ms. Dec. 293, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Montgomery Ward & Co., Incorporated, of Chicago, Ill., to the application of The Firestone Tire & Rubber Company, of Akron, Ohio, for registration of a trade-mark for merchandise described in the application as "home, automobile, and portable radios and parts thereof, including radio batteries, radio aerials, radio tubes, and electric record players, automobile horns."

Applicant's mark comprises the name "Firestone" and the words "Air Chief," displayed in association with the pictorial representation of a winged figure standing on a globe. The mark relied upon by opposer, registered and used for radio receiving sets and related articles, is the single word "Airline." The First Assistant Commissioner stated that opposer's priority of use was conceded and also the substantial identity of the goods to which the two marks are respectively applied. The only question to be determined, he said, was that of confusing similarity of the marks.

In discussing this question, the First Assistant Commissioner stated:

"Viewed as a whole, the marks differ widely in appearance; and the only word common to both is 'Air.' This word, however, is a prominent feature of both marks; and while the name 'Firestone' is equally prominent in applicant's mark, its presence is of but little avail in so far as registrability is concerned, if the expressions 'Air Chief' and 'Airline' are so similar as to be likely to be confused. *California Prune & Apricot Growers Association* v. *Dobry Flour Mills, Inc.*, 26 C. C. P. A. 910, 101 Fed. (2d) 838. In other words, if the word 'Airline' were substituted in applicant's mark for the words 'Air Chief,' I doubt that even applicant's counsel would argue for registrability; and as the adopted variation is merely one of degree, I think that in the final analysis the decision of the case must rest largely upon a comparison of the two expressions alone.

"Applicant relies heavily upon the case of *Montgomery Ward & Co., Incorporated,* v. *Spiegel, Incorporated,* 132 Fed. (2d) 144, 547 O. G. 605, decided by the United States Court of Customs and Patent Appeals since the decision here appealed from was rendered. In that case it was held that there is no confusing similarity between opposer's 'Airline' mark and a mark applied to identical goods, described by the court as 'consisting of the words "Air Castle" superimposed upon or in front of a representation of a medieval castle, the words "Air Castle" appearing on a ribbon-like scroll.' In the course of its opinion the court said:

" 'No case in all that have been cited to us is exactly on all fours with the instant one, and we have not discovered any such case ourselves. As we view the present situation, however, it seems to us that the decision must turn partly upon the difference in appearance and sound between the two marks, but more especially upon the difference in meaning which must be attributed to them.

" 'We have hereinbefore set out the definitions of "air line" and "air castle." "Air Castle" seems to us to be an arbitrary selection which is suggestive of what might be brought about by the use of the "Air Castle" radio. This connotation is wholly different from any suggestion or meaning that might be attributed to the term "air line." '

"Only one definition of 'air line' appears in the opinion, namely, 'a straight line, as through the air; a beeline.' This definition was quoted from Webster's New International Dictionary, which also defines the term as 'a system of transportation by aircraft, or the equipment with which the system operates.'

"While its association with the particular merchandise involved would doubtless suggest other meanings of opposer's mark, I am clearly of the opinion that this latter definition is the one that would immediately occur to the minds of most Americans upon seeing or hearing the words 'air line.' The reason is that recent world events, in which air transportation has played so important and so dramatic a part, have made the public alertly conscious of current developments and accomplishments in connection with aircraft, and its increasingly improved adaptability to the requirements of global warfare.

"And by the same token, I think the words 'Air Chief' are likely to bear a very similar connotation. In the same issue of a local newspaper, for example, I find references to the 'Chief' of the United States Army Air Forces, the 'Chief' of the Imperial Air Force and the 'Chief' of the Mediterranean Air Command. Scarcely a day passes that does not bring stories concerning the exploits of these officers, and others similarly engaged; and presumably such stories are read by everyone who is interested in the thrilling progress of our war in the air. To a substantial majority of these readers it seems to me that the words 'Air Chief' would inevitably suggest some such individual, or at least would connote supremacy in relation to the operation of aircraft.

"It may be, as argued by applicant and as intimated by the court in the cited case, that the word 'air,' standing alone, is descriptive of radio receiving sets. But the court was careful to point out that no implication was intended 'that any newcomer would be privileged to register a trade-mark using the word "air," unless the mark as a whole were of such character as to eliminate the probability of confusion in trade.' Because applicant's mark is likely to suggest an idea very closely related to the idea suggested by opposer's mark, and thus has a similar significance, it is my opinion that the concurrent use of these two marks on identical merchandise would be reasonably likely to cause confusion.

"As further distinguishing the cited case, it is quite obvious that the words 'Air Chief' bear much nearer resemblance to the word 'Airline,' in appearance and in sound, than do the words 'Air Castle.' "

CONSOLIDATED HAT STORES, LTD., *v.* DALTON HAT COMPANY, Opposition No. 21,719.

In a decision rendered August 26, 1943 (166 Ms. Dec. —, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition of Consolidated Hat Stores, Ltd., of Los Angeles, Calif., to the application of Dalton Hat Company, of Yonkers, N. Y., for registration of a trade-mark for men's hats, comprising the notation "Mission Trails" in association with a picture which includes the facade of a building of mission style.

Opposer relied upon several registrations of composite trade-marks appropriated to the same merchandise. In discussing these registered marks and the question of confusing similarity between them and applicant's mark, the First Assistant Commissioner stated:

"All of these marks include the single feature with which applicant's mark is alleged to conflict. This feature is described by the Examiner of Interferences as 'the somewhat diagrammatic representation of a mission.' In the absence of that suggestion, it would have impressed me as being purely fanciful and entirely meaningless. It is faintly reminiscent of the mission concept, but I doubt that it would be generally regarded as a representation of a mission. Certainly it bears no resemblance to the building portrayed in applicant's mark, nor is it the equivalent of applicant's notation 'Mission Trails.'

"Moreover, opposer's marks all have other design features of varying prominence, and all are dominated by the word 'Sunlan.' This, of course, accentuates the differences between these marks and applicant's mark, and in my opinion precludes any reasonable possibility of confusion in their concurrent use. See *Mishawaka Rubber and Woolen Manufacturing Co.* v. *The H. C. Godman Co.*, 28 C. C. P. A. 1116, 119 Fed. (2d) 425."

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 28, 1943

[Vol. 554. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

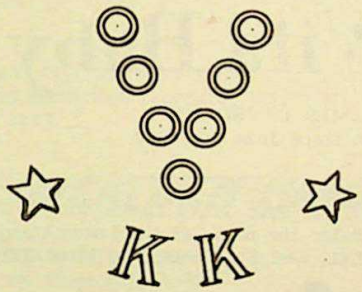
Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 460,521. Fitzpatrick Bros., Inc., Chicago, Ill. Filed May 10, 1943.



FOR SOAP AND CLEANING PREPARATIONS IN FINELY DIVIDED FORM FOR HOUSEHOLD USE.

Claims use since Nov. 10, 1942.

Ser. No. 460,750. Herve Baribeau, doing business under the name of Baribeau & Fils, Levis, Canada. Filed May 20, 1943.

FOR CLEANING AND SCOURING POWDER.

Claims use since May 16, 1942.

Ser. No. 461,545. Club Aluminum Products Co., Chicago, Ill. Filed June 21, 1943.

CLUB

FOR ALUMINUM CLEANER, GENERAL CLEANER, SILVER POLISH, AND RUG AND UPHOLSTERY CLEANER.

Claims use on aluminum cleaner since on or about Mar. 3, 1943; on general cleaner since on or about May 21, 1943; on silver polish since on or about Apr. 13, 1942, and on rug and upholstery cleaner since on or about June 1, 1943.

Ser. No. 462,017. Huriklene Chemical Co., Bennington, Vt. Filed July 12, 1943.

HURIKLENE

FOR LIQUID CLEANER FOR WINDOWS, GLASSWARE, SILVERWARE, PORCELAIN, ENAMEL, CHROME, AND TILE.

Claims use since June 23, 1943.

Ser. No. 462,149. John T. Stanley Co., Inc., New York, N. Y. Filed July 17, 1943.

TAR-ZO

No claim is made to the word "Tar" except as shown.

FOR SOAP.

Claims use since April 1935.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 453,548. Kelco Company, San Diego, Calif. Filed June 8, 1942.

MARGEL

FOR ALGINATES—TO WIT, SODIUM ALGINATE AND AMMONIUM ALGINATE.

Claims use since May 22, 1942.

Ser. No. 459,796. NORTHERN ORDNANCE INCORPORATED, Minneapolis, Minn. Filed Apr. 10, 1943.

Solfaich

FOR MEDICAMENT—NAMELY, A SALVE OR OINTMENT TO BE APPLIED TO THE SKIN FOR IRRITATIONS OR AILMENTS THEREOF.
Claims use since Mar. 15, 1943.

Ser. No. 460,769. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed May 20, 1943.

HALLUXOL

FOR LOTION FOR BUNIONS.
Claims use since May 3, 1943.

Ser. No. 461,435. FELTON GRIMWADE & DUERDINS PROPRIETARY LIMITED, Melbourne, Victoria, Australia. Filed June 16, 1943.

DEXSAL

FOR EFFERVESCENT PREPARATIONS OF MEDICINAL GLUCOSE FOR THE RELIEF OF NAUSEA AND SICK HEADACHE AND THE TREATMENT OF CONDITIONS INVOLVING ACIDOSIS.
Claims use since December 1935.

Ser. No. 461,612. KREMOLA COMPANY, INC., Chicago, Ill. Filed June 23, 1943. Under ten-year proviso.

DR. C. H. BERRY'S
FRECKLE OINTMENT

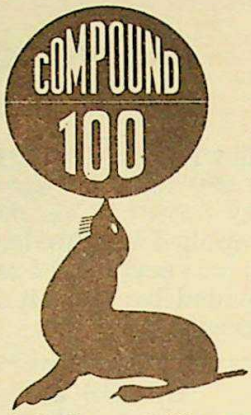
FOR FRECKLE OINTMENT USED FOR BLEACHING OF SKIN AND IN TREATMENT OF SURFACE SKIN ERUPTIONS.
Claims use since 1883.

Ser. No. 461,620. WALLERSTEIN COMPANY, INC., New York, N. Y. Filed June 23, 1943.

PROLIC

FOR ENZYMATIC MATERIAL FOR USE IN DEGUMMING SILK, BATING SKINS, HIDES AND PELTS, AND AS A SOLUBILIZING AGENT IN THE TEXTILE AND DRY CLEANING INDUSTRIES.
Claims use since May 20, 1943.

Ser. No. 461,659. THE JOHNSON-MARCH CORPORATION, New York, N. Y. Filed June 25, 1943.



No claim is made to the word "Compound" apart from the mark.
FOR COMPOSITION FOR DUSTPROOFING COAL.
Claims use since June 7, 1943.

Ser. No. 461,716. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo. Filed June 28, 1943.

Vita Baby

FOR VITAMIN CAPSULES.
Claims use since June 16, 1943.

Ser. No. 461,870. THE GROVE LABORATORIES, INC., doing business under the name of Beaumont Company, Wilmington, Del., and St. Louis, Mo. Filed July 5, 1943.

4 WAY

FOR PILE SUPPOSITORIES.
Claims use since June 25, 1943.

Ser. No. 462,029. RHINOPTO COMPANY, Dallas, Tex. Filed July 12, 1943.

RANALENN

FOR EAR DROPS.
Claims use May 14, 1943.

Ser. No. 462,062. WALLERSTEIN COMPANY, INC., New York, N. Y. Filed July 13, 1943.

MYLASE

FOR ENZYMATIC PREPARATION SUITABLE FOR THE CONVERSION OF STARCHY MATERIALS.
Claims use since Nov. 9, 1940.

Ser. No. 462,126. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed July 16, 1943.

SULFATHALIDINE

FOR PHARMACEUTICAL PREPARATIONS USEFUL AS BACTERICIDES AND AS ANTISEPTICS.
Claims use since June 11, 1943.

Ser. No. 462,362. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill. Filed July 28, 1943.

ETCHORITE

FOR SOLUTION USED FOR MAKING A LITHOGRAPHIC PLATE PHOTO-SENSITIVE.
Claims use since November 1940.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 451,123. STOUCK-REASER COMPANY, Gettysburg, Pa. Filed Feb. 20, 1942.

EMPIRE

FOR RED CEDAR SHINGLES.
Claims use since Feb. 10, 1938.

Ser. No. 460,481. DWIGHT L. STEELE, doing business as Standard Insulation Company, Hagerstown, Md. Filed May 7, 1943.

WEATHER-KING

FOR STORM WINDOWS.
Claims use since July 1, 1942.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 461,127. ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio. Filed June 4, 1943.

ADDRESSOloy

FOR FERROUS METAL WITH A FLEXIBLE NON-METALLIC COATING.
Claims use since June 20, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 462,237. THE ALDEN SPEARE'S SONS CO., Cambridge, Mass. Filed July 22, 1943.

KUTKON

FOR CUTTING LUBRICANT.
Claims use since June 28, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 453,680. NEW WRINKLE, INC., Dayton, Ohio. Filed June 15, 1942.

WRIN-KEL-LIN

FOR PAINTS, ENAMELS, AND VARNISHES IN LIQUID, READY-MIXED FORM, BOTH READY-TO-USE AND AS A CONCENTRATE.
Claims use since June 1, 1942.

Ser. No. 457,878. MASURY-YOUNG COMPANY, Charlestown and Boston, Mass. Filed Jan. 12, 1943.

MYCO SEALATEX

FOR LIQUID FLOOR SEALING COMPOUND.
Claims use since Sept. 27, 1940.

Ser. No. 461,013. CHICAGO VITREOUS ENAMEL PRODUCT CO., Cicero, Ill. Filed May 29, 1943.

ARMOR-VIT

FOR CERAMIC-TYPE PROTECTIVE COATING WHICH IS HIGHLY RESITANT TO RUST, CORROSION, HEAT, ABRASION, AND CHEMICAL SOLUTIONS, WHICH COATING IS CURED BY THE APPLICATION OF HEAT, THE TEMPERATURE BEING LOWER THAN THAT USUALLY USED IN THE CASE OF SUCH CERAMIC COATINGS AS PORCELAIN ENAMEL.
Claims use since Sept. 18, 1942.

Ser. No. 462,316. KELCO COMPANY, San Diego, Calif. Filed July 26, 1943.

KELCO

FOR ALGIN PRODUCT FOR USE IN WATER PAINTS AS A SUSPENDING AND VISCOSITY CONTROLLING AGENT AND TO IMPROVE THE BRUSHING CHARACTERISTICS.
Claims use since Dec. 22, 1936.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 460,333. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

BOY
BLUE

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1937.

Ser. No. 460,334. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

MISTRESS MARY

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1937.

Ser. No. 460,335. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

ALICE SWEET ALICE

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1942.

Ser. No. 460,336. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

ANNIE AT THE GARDEN GATE

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1941.

Ser. No. 460,337. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

ELSIE MARLEY

The trade-mark is a name taken from an Old Mother Goose rhyme.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1941.

Ser. No. 460,338. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

LUCY LOCKET

The trade-mark is a name taken from an Old Mother Goose rhyme.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 460,339. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

CURLY LOCKS

The trade-mark is a name taken from an old Mother Goose rhyme.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1937.

Ser. No. 460,340. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

QUEEN OF HEARTS

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1940.

Ser. No. 460,341. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

PRETTY MAID

FOR DOLLS AND DOLL CLOTHES.
Claims use since Jan. 1, 1940.

Ser. No. 460,342. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

JENNIE

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1942.

Ser. No. 460,343. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

PRINCESS ROSANIE

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1941.

Ser. No. 460,344. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed May 1, 1943.

LITTLE MISS DONNET

The trade-mark is a name taken from an old Mother Goose rhyme.

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 461,876. PENNSYLVANIA RUBBER COMPANY, Jeannette, Pa. Filed July 5, 1943.

War-Bird

FOR SHUTTLECOCKS.

Claims use since July 2, 1943.

Ser. No. 462,587. FREEMAN S. MIKESELL, Chetek, Wis. Filed Aug. 7, 1943.

MIKE'S HAIR MINNOW

The words "Hair Minnows" are disclaimed apart from the mark.

FOR ARTIFICIAL BAIT.

Claims use since Feb. 1, 1943.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 459,635. ROBOT LAUNDRY MACHINERY CORPORATION OF CALIFORNIA, Los Angeles, Calif. Filed Apr. 5, 1943.

ROBOT

FOR LAUNDRY MACHINERY—NAMELY, LAUNDRY WASHING MACHINES.

Claims use since August 1940.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 441,830. MINE SAFETY APPLIANCES COMPANY, Pittsburgh, Pa. Filed Mar. 22, 1941.

MSA

FOR DUST, FUME, AND MIST SAMPLING APPARATUS, DUST COUNTING APPARATUS, APPARATUS FOR INDICATING GAS CONCENTRATIONS, APPARATUS FOR RECORDING GAS CONCENTRATIONS, FLUID FLOW INDICATING APPARATUS, GAS DETECTORS, FLAME SAFETY LAMPS, GAUGE TESTERS, GOGGLES, LAMP TESTING APPARATUS, MANOMETERS, AIR PRESSURE REGULATORS, AND PRESSURE RELEASE VALVES LIMITING MAXIMUM PRESSURE IN RESPIRATORY AIR SUPPLY SYSTEMS.

Claims use since Nov. 1, 1914.

Ser. No. 461,789. HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis., and Rahway, N. J. Filed July 1, 1943. Under section 5b of the act of 1905, as amended in 1920.

HAMILTON

FOR DRAFTING ROOM FURNITURE—NAMELY, DRAFTING TABLES, ENGINEERS' DESKS, FILING CABINETS FOR DRAWINGS, FILING TRAYS FOR DRAWINGS, DRAFTING CHAIRS AND STOOLS, AND DRAWING BOARDS.

Claims use since 1915.

Ser. No. 461,914. CINE SERVICE COMPANY, Dallas, Tex. Filed July 7, 1943.

Quiz Nite

FOR MAGIC LANTERN SLIDES AND POSITIVE PROJECTION SLIDES.

Claims use since June 1, 1943.

Ser. No. 462,093. EDROY PRODUCTS COMPANY, New York, N. Y. Filed July 15, 1943.

MAGNI-TUBE

The term "Tube" is disclaimed apart from the mark.

FOR INSTRUMENT FOR CALCULATING DISTANCES ON AERIAL PHOTOGRAPHS WHICH ARE TAKEN FROM KNOWN HEIGHTS.

Claims use since Apr. 23, 1943.

Ser. No. 462,471. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Aug. 3, 1943.

AEROSTIGMAT

FOR PHOTOGRAPHIC LENSES.

Claims use since Jan. 7, 1932.

CLASS 31

FILTERS AND REFRIGERATORS

Ser No. 458,804. LEONARD F. CLERC, doing business as Clercold, Chicago, Ill. Filed Feb. 27, 1943.

AIRPAK

FOR REFRIGERATORS AND REFRIGERATED SHIPPING CONTAINERS USING DRY ICE AS THE REFRIGERANT AND PARTS THEREOF.

Claims use since July 18, 1941.

Ser. No. 458,805. LEONARD F. CLERC, doing business as Clercold, Chicago, Ill. Filed Feb. 27, 1943.

BEVPAK

FOR REFRIGERATORS AND REFRIGERATED SHIPPING CONTAINERS USING DRY ICE AS THE REFRIGERANT AND PARTS THEREOF.

Claims use since July 18, 1941.

Ser. No. 458,807. LEONARD F. CLERC, doing business as Clercold, Chicago, Ill. Filed Feb. 27, 1943.

CLERCOLD

FOR REFRIGERATORS AND REFRIGERATED SHIPPING CONTAINERS USING DRY ICE AS THE REFRIGERANT AND PARTS THEREOF.

Claims use since June 1, 1937.

Ser. No. 458,808. LEONARD F. CLERC, doing business as Clercold, Chicago, Ill. Filed Feb. 27, 1943.

PARARAK

FOR REFRIGERATORS AND REFRIGERATED SHIPPING CONTAINERS USING DRY ICE AS THE REFRIGERANT AND PARTS THEREOF.

Claims use since July 18, 1941.

Ser. No. 458,809. LEONARD F. CLERC, doing business as Clercold, Chicago, Ill. Filed Feb. 27, 1943.

TRANSPAK

FOR REFRIGERATORS AND REFRIGERATED SHIPPING CONTAINERS USING DRY ICE AS THE REFRIGERANT AND PARTS THEREOF.

Claims use since July 18, 1941.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 462,723. ROSE-DERRY COMPANY, Newton, Mass. Filed Aug. 13, 1943.

Cuddle-Nest

FOR COMBINATION MATTRESS WITH WETPROOF LINING, PILLOW, AND COVERLET, FOR INFANTS' CRIBS OR CARRIAGES.

Claims use since May 13, 1943.

Ser. No. 462,724. ROSE-DERRY COMPANY, Newton, Mass. Filed Aug. 13, 1943.

FOR COMBINATION MATTRESS WITH WETPROOF LINING, PILLOW, AND COVERLET, FOR INFANTS' CRIBS OR CARRIAGES.

Claims use since May 13, 1943.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 452,137. WESTON INTERNATIONAL CORP., New York, N. Y. Filed Apr. 3, 1942.

The drawing is lined for red and blue. No claim is made to the representation of the goods apart from the mark.

FOR PYROPHORIC PIPE, CIGARETTE, AND CIGAR LIGHTERS.

Claims use since Jan. 15, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 456,422. INTAGLIO SERVICE CORPORATION, New York, N. Y. Filed Oct. 26, 1942.

No claim is made to the word "Formation" apart from the mark.

FOR PRINTS, PARTICULARLY PHOTOENGRAVINGS.

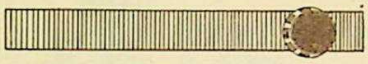
Claims use since Oct. 7, 1942.

Ser. No. 457,946. VERBA WESLEY CARMACK, Fort Custer, Mich. Filed Jan. 16, 1943.

FOR SERIES OF CARTOONS PUBLISHED WEEKLY.

Claims use since Dec. 5, 1941.

Ser. No. 461,042. D. S. PUBLISHING CO., INC., New York, N. Y. Filed May 31, 1943.



No claim is made to the words "Radio Magazine" apart from the mark. The drawing is lined for red.
FOR MONTHLY MAGAZINES.
Claims use since October 1942.

CLASS 39

CLOTHING

Ser. No. 461,641. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 24, 1943.

Action Aires

FOR SHOES MADE OF LEATHER, FABRIC, RUBBER, AND/OR COMBINATIONS THEREOF.
Claims use since July 1942.

Ser. No. 462,349. TOWNCLIFFE, INC., New York, N. Y. Filed July 27, 1943.

ROYAL FERN

FOR LADIES' AND MISSES' COATS, SUITS, JACKETS AND SKIRTS.
Claims use since December 1941.

Ser. No. 462,381. SAKS & COMPANY, New York, N. Y. Filed July 28, 1943.

Cassandra

FOR WOMEN'S HOSIERY.
Claims use since June 15, 1943.

Ser. No. 462,390. HARRY MYERS & CO., INC., Baltimore, Md. Filed July 29, 1943.

Youngchap

FOR MEN'S AND BOYS' SUITS, TROUSERS, OVERCOATS, TOPCOATS, RAINCOATS, REVERSIBLE COATS, AND SPORT COATS.
Claims use since Aug. 5, 1935.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 457,155. OSCAR R. PRICE, doing business as Varitex Company, New York, N. Y. Filed Dec. 1, 1942.

FOR SEAM BINDING.
Claims use since Jan. 2, 1936.

Ser. No. 460,912. LOUIS STERN COMPANY, Providence, R. I. Filed May 25, 1943.

The word "Guard" is disclaimed apart from the mark.
FOR COTTON FABRIC WATCH STRAPS.
Claims use since Mar. 1, 1943.

CLASS 42

KNITTED, NETTED, AND TEXILE FABRICS

Ser. No. 448,661. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 14, 1941.

Roly Poly

FOR CRIB SHEETS, PILLOWCASES, CRIB MATTRESS COVERS, BATH BLANKETS, QUILTS, QUILTED BABY PADS IN THE NATURE OF MATTRESS PADS, AND SLUMBER COVERS.
Claims use since Jan. 15, 1941.

Ser. No. 461,053. Pedigree Fabrics, Inc., New York, N. Y. Filed May 31, 1943.

The words "For the Discriminating Woman" are disclaimed apart from the mark.

FOR RAYON PIECE GOODS.

Claims use since March 1942.

Ser. No. 461,491. Marvlo Fabrics, Inc., New York, N. Y. Filed June 18, 1943.

MARCHING ON

FOR PIECE GOODS OF COTTON, LINEN, SILK, AND RAYON.

Claims use since May 21, 1942.

Ser. No. 461,855. Kluger, a Limited Partnership, New York, N. Y. Filed July 3, 1943.

Crepe Casba

Applicant disclaims the word "Crepe" apart from the mark.

FOR RAYON PIECE GOODS.

Claims use since June 17, 1943.

CLASS 43

THREAD AND YARN

Ser. No. 461,126. R. Wolfenden & Sons, Attleboro, Mass. Filed June 3, 1943.

WOLFENIZED

FOR YARN.

Claims use since July 1, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 446,251. Nat P. Steckler, New York, N. Y. Filed Aug. 14, 1941.

The picture is that of Miss Zoe Steckler, whose consent is of record.

FOR SUSPENSORIES, ABDOMINAL SUPPORTERS, TRUSSES, ATHLETIC SUPPORTERS, SANITARY BELTS, ARCH SUPPORTERS AND KNEE CAP PROTECTORS.

Claims use since July 1936.

Ser. No. 462,712. Hospital Liquids, Inc., Chicago, Ill. Filed Aug. 13, 1943.

CLYSET

FOR PARENTERAL ADMINISTRATION DEVICES.

Claims use since July 31, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 453,518. One-Two-Three Company, Inc., New York, N. Y. Filed June 6, 1942.

1-2-3

Home MIXER

The words "Home Mixer" are disclaimed from the mark.

FOR FLAVORING CONCENTRATES FOR BEVERAGES.

Claims use since Mar. 4, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 454,841. Safeway Stores, Inc., of Nevada, also doing business as Table Products Company, Reno, Nev., and Oakland, Calif. Filed Aug. 10, 1942.

Prince Leo

FOR CANNED SALMON.

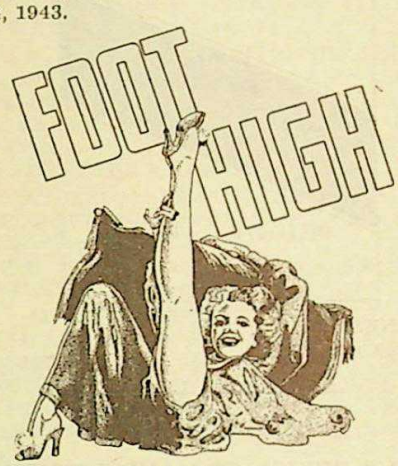
Claims use since May 22, 1940.

Ser. No. 455,212. MYRON AINSWORTH SMITH, Providence, R. I. Filed Aug. 31, 1942.

PILGRIM

FOR DOG FOOD.
Claims use since Apr. 10, 1934.

Ser. No. 460,153. F. H. HOGUE COMPANY, doing business as F. H. Hogue, Yuma, Ariz., and Kent, Wash. Filed Apr. 24, 1943.



The picture of the girl is fanciful.
FOR FRESH VEGETABLES.
Claims use since Dec. 10, 1938.

Ser. No. 461,253. KANSAS CITY MACARONI & IMPORTING Co., doing business as The American Beauty Macaroni Co., Kansas City and St. Louis, Mo., and Denver, Colo. Filed June 9, 1943.

BABY-RONI

Applicant is the sole owner of Trade-Mark 240,172, dated March 20, 1928. No claim is made for the word "Baby" apart from the mark.
FOR MACARONI.
Claims use since Apr. 15, 1943.

Ser. No. 461,570. PETER D. RIDENOUR, doing business as The P. D. Ridenour Sales Co., Chicago, Ill. Filed June 21, 1943.

Little Major

FOR POWDERED DEHYDRATED VEGETABLES PREPARED TO MAKE TOMATO-CARROT COCKTAIL, CARROT JUICE COCKTAIL AND TOMATO SAUCE; DEHYDRATED SPINACH FLAKES AND SOY BEAN FLOUR.
Claims use since September 1941.

Ser. No. 461,723. THE SWEETS COMPANY OF AMERICA, INCORPORATED, Hoboken, N. J. Filed June 28, 1943.

Tootsie

The applicant is the proprietor of the following trade-mark certificates: 75,218, 295,641.
FOR POWDER CONSISTING OF DRIED MILK, COCOA, AND OTHER INGREDIENTS WHICH IS TO BE DISSOLVED IN MILK OR WATER TO FORM A FOOD DRINK.
Claims use since June 9, 1943.

Ser. No. 461,793. INTERNATIONAL MILLING COMPANY, doing business as Wells Flour Mills Co., Wilmington, Del. Filed July 1, 1943.

HYO

FOR WHEAT FLOUR.
Claims use since Apr. 17, 1939.

Ser. No. 461,819. IOWA CANNING COMPANY, Vinton, Iowa. Filed July 2, 1943.

HUB

The applicant is the owner of Registration No. 208,073, dated Jan. 19, 1926.
FOR CANNED VEGETABLES.
Claims use since 1902.

Ser. No. 461,962. SOYA CORPORATION OF AMERICA, New York, N. Y. Filed July 9, 1943.

SYCORA

FOR SOYA BEAN FLOUR AND SOYA BEAN GRITS.
Claims use since Mar. 25, 1943.

Ser. No. 462,295. QUALITY MACARONI COMPANY, St. Paul, Minn. Filed July 24, 1943.

No claim is made to the words "The Perfect Salad Macaroni" apart from the mark.
FOR MACARONI.
Claims use since July 10, 1943.

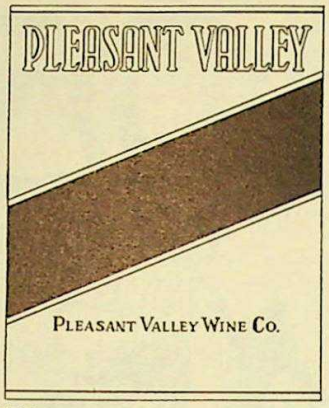
Ser. No. 462,308. GEORGE EHLENBERGER & CO., INC. (FLA.), Miami, Fla. Filed July 26, 1943.

Applicant disclaims the representation of an egg and the notation "Florida Egg Producers" separately from the mark as shown.
FOR EGGS IN THEIR NATURAL STATE.
Claims use since Jan. 18, 1943.

CLASS 47

WINES

Ser. No. 455,734. THE PLEASANT VALLEY WINE COMPANY, Rheims, N. Y. Filed Sept. 24, 1942. Under 10-year proviso.



FOR WINES.
Claims use since 1863.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 462,104. BING BROTHERS, INC., Brooklyn, N. Y. Filed July 15, 1943.

FOR LUPULIN, HOP EXTRACTS, MALT EXTRACTS, BREWERS' RICE, CORN SYRUP, CORN FLAKES, AND CORN GRITS, SAID CORN SYRUP, CORN FLAKES, AND CORN GRITS BEING MADE FOR USE IN THE MANUFACTURE OF MALT BEVERAGES OR LIQUOR.
Claims use since May 4, 1935.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

SEPTEMBER 28, 1943

403,449. GASOLINE, LUBRICATING OILS AND GREASES. SOUTHERN INDEPENDENT OIL AND REFINING COMPANY, INC., Evansville, Ind.

Filed October 1, 1938. Serial No. 411,189. PUBLISHED MAY 30, 1939. Class 15.

403,450. LUBRICATING COMPOUND, ESPECIALLY FOR USE IN THE CUTTING AND MACHINING OF ALUMINUM AND ITS ALLOYS ONLY. SULFLO, INC., Elizabeth, N. J.

Filed January 9, 1942. Serial No. 450,119. PUBLISHED FEBRUARY 9, 1943. Class 15.

403,451. SHOES OF LEATHER, FABRIC, RUBBER, OR COMBINATIONS THEREOF. GALE SHOE MFG. CO., Boston, Mass.

Filed February 6, 1942. Serial No. 450,796. PUBLISHED JULY 7, 1942. Class 39.

403,452. MEAT PRODUCTS — NAMELY, COOKED FRESH HAM, COOKED HAM, HAM, BACON, COOKED PORK, MEAT LOAF (INCLUDING TONGUE LOAF AND LOAVES MADE OF A COMBINATION OF PORK, BEEF AND VEAL WITH OTHER INGREDIENTS). OSCAR MAYER & CO., Chicago, Ill.

Filed February 6, 1942. Serial No. 450,808. PUBLISHED JULY 20, 1943. Class 46.

403,453. FLASHLIGHTS AND DRY-CELL BATTERIES. FLASHLIGHT COMPANY OF AMERICA, Jersey City, N. J.

Filed March 10, 1942. Serial No. 451,532. PUBLISHED JUNE 2, 1942. Class 21.

403,454. PRINTED GAME RULES AND PRINTED DATA ON VITAMINS, WHICH ARE CONJOINTLY USED TO TEACH THE VALUES OF THE VITAMIN CONTENTS OF FOODS, AND WHICH ARE PUBLISHED FROM TIME TO TIME. VITA-MIN-GO, INC., New York, N. Y.

Filed April 23, 1942. Serial No. 452,549. PUBLISHED JULY 20, 1943. Class 38.

403,455. TYPEWRITERS, CASH REGISTERS, CHECK PROTECTORS, TABULATING MACHINES, BOOKKEEPING MACHINES, DUPLICATORS, CODE WRITERS, BILLING MACHINES, ADDRESSING MACHINES, PARTS THEREOF AND ACCESSORIES THEREFOR. AKTIEBOLAGET FACIT, Atvidaberg, Sweden.

Filed May 11, 1942. Serial No. 452,917. PUBLISHED JUNE 29, 1943. Class 23.

403,456. PNEUMATICALLY OPERATED MACHINERY—NAMELY, PNEUMATIC VISES, PNEUMATIC CLAMPS, PNEUMATIC CHUCKS, AND PNEUMATIC PUNCHES. PRODUCTION DEVICES INCORPORATED, East Hartford, Conn.

Filed May 13, 1942. Serial No. 452,986. PUBLISHED JUNE 22, 1943. Class 23.

403,457. COMIC STRIP AND A MAGAZINE OR PUBLICATION. FAWCETT PUBLICATIONS, INC., Greenwich, Conn.

Filed May 30, 1942. Serial No. 453,382. PUBLISHED JULY 13, 1943. Class 38.

403,458. MACHINES AND TOOLS FOR ROCK AND EARTH DRILLING, PUMPS, CEMENT INJECTORS, DRILL HEADS, STONE SAWS, TOOLS SET WITH DIAMONDS, TUNGSTEN OR SILICON CARBIDE OR OTHER HARD GRAINS FOR WORKING STONE, MINERALS AND METALS. SVENSKA DIAMANTBERGBORRNINGS AKTIEBOLAGET, Stockholm, Sweden.

Filed July 3, 1942. Serial No. 454,045. PUBLISHED JULY 6, 1943. Class 23.

403,459. SYNTHETIC DETERGENTS USED IN BATHS FOR WET PROCESSING OF TEXTILE GOODS. ARKANSAS COMPANY, INC., Newark, N. J.

Filed July 4, 1942. Serial No. 454,049. PUBLISHED MARCH 30, 1943. Class 4.

403,460. MEN'S HATS. KANNER-WALD INC., South Norwalk, Conn.

Filed July 11, 1942. Serial No. 454,171. PUBLISHED OCTOBER 20, 1942. Class 39.

403,461. PAPER FOR ENCLOSING METAL PARTS WHICH HAVE BEEN SLUSHED WITH OIL AND COMPRISING AN INFUSED BODY AND AN OIL BARRIER STRATUM. ANGIER CORPORATION, Framingham, Mass.

Filed July 31, 1942. Serial No. 454,619. PUBLISHED JULY 20, 1943. Class 37.

403,462. READY-MIXED PAINTS, PAINT ENAMELS, VARNISHES, UNDERCOATING PAINT, PAINT ROOF COATING, PORCH AND STEP PAINT, CEMENT PAINT AND PAINT AND VARNISH REMOVER, PASTE PAINT, COLORS IN OIL, SCREEN PROCESS PAINT, LACQUERS AND STAINS. GENERAL PAINT CORPORATION, San Francisco, Calif.

Filed August 25, 1942. Serial No. 455,099. PUBLISHED NOVEMBER 24, 1942. Class 16.

403,463. PIECE GOODS OF COTTON, RAYON, WOOL, WORSTED, LINEN, SILK, NYLON, OR OF ADMIXTURE OF ANY OF THESE MATERIALS. BAXTER, WOODHOUSE & TAYLOR LIMITED, Stockport, England.

Filed September 9, 1942. Serial No. 455,423. PUBLISHED JULY 20, 1943. Class 42.

403,464. BUCKING BARS, RIVET SETS, DIMPLING SETS, WRENCHES, BUSHINGS, TOGGLE PINS, PISTONS, DIMPLE DIE INSERTS, ETC. AMERICAN TOOL PRODUCTS, INC., Los Angeles, Calif.

Filed September 23, 1942. Serial No. 455,698. PUBLISHED JULY 6, 1943. Class 23.

403,465. AIRPLANES AND STRUCTURAL PARTS. VEGA AIRCRAFT CORPORATION, Burbank, Calif.

Filed September 26, 1942. Serial No. 455,810. PUBLISHED JULY 20, 1943. Class 19.

403,466. DRESSES, SUITS, COATS, HATS, SKIRTS, BLOUSES, SCARFS, SWEATERS, NECKTIES, BELTS, BATHING SUITS, ETC. JAYS INC., Boston, Mass.

Filed October 12, 1942. Serial No. 456,148. PUBLISHED DECEMBER 15, 1942. Class 39.

403,467. WRENCHES, PLIERS, SCREWDRIVERS, PUNCHES, CHISELS, BALL PEEN HAMMERS, AND CREEPERS. BARCALO MANUFACTURING COMPANY, Buffalo, N. Y.

Filed October 24, 1942. Serial No. 456,379. PUBLISHED JULY 13, 1943. Class 23.

403,468. FRESH CITRUS FRUITS. EXETER ORCHARDS ASSOCIATION, Exeter, Calif.

Filed October 24, 1942. Serial No. 456,383. PUBLISHED JULY 20, 1943. Class 46.

403,469. PRINTED PUBLICATION ISSUED ANNUALLY AND TREATING PRINCIPALLY WITH THE SUBJECT OF HOROSCOPY. DELL PUBLISHING COMPANY, INC., New York, N. Y.

Filed November 2, 1942. Serial No. 456,594. PUBLISHED JULY 20, 1943. Class 38.

403,470. SHEAVES AND PULLEYS. WORTHINGTON PUMP AND MACHINERY CORPORATION, Harrison, N. J.

Filed November 11, 1942. Serial No. 456,760. PUBLISHED JULY 13, 1943. Class 23.

403,471. VENETIAN BLINDS. WILLIAM VOLKER & COMPANY OF MISSOURI, INC., Kansas City, Mo.
Filed November 12, 1942. Serial No. 456,782. PUBLISHED JULY 20, 1943. Class 32.

403,472. REFRACTORY BLOCKS AND TILE EMPLOYED FOR THE CONSTRUCTION OF FURNACE WALLS AND ARCHES, METAL MASONRY HOLDING AND SUPPORTING LUGS, AND FRAMES FOR FURNACES AND ARCH CONSTRUCTION. M. H. DETRICK COMPANY, Chicago, Ill.
Filed November 28, 1942. Serial No. 457,090. PUBLISHED MAY 25, 1943. Class 12.

403,473. SWEATERS FOR MEN, WOMEN, BOYS AND GIRLS; MUFFLERS, WRISTLETS, SOCKS, AND COTTON BASQUE SHIRTS. LORD JEFF KNITTING COMPANY, INCORPORATED, New York, N. Y.
Filed November 28, 1942. Serial No. 457,098. PUBLISHED JUNE 8, 1943. Class 39.

403,474. SWEATERS FOR MEN, WOMEN, BOYS AND GIRLS, MUFFLERS AND WRISTLETS. LORD JEFF KNITTING COMPANY, INCORPORATED, New York, N. Y.
Filed November 28, 1942. Serial No. 457,100. PUBLISHED JUNE 8, 1943. Class 39.

403,475. LADIES' DRESSES, COATS, AND SUITS; FUR GARMENTS—NAMELY, COATS, CAPES, ROBES, SCARVES, AND COLLARS; UNDERWEAR AND LINGERIE—NAMELY, SLIPS, PETTICOATS, BLOOMERS, UNDERDRAWERS, UNDERSHIRTS, CHEMISES, BRASSIÈRES, NIGHTGOWNS, PAJAMAS, AND CORSETS. RELIABLE STORES CORPORATION, Baltimore, Md.
Filed December 1, 1942. Serial No. 457,156. PUBLISHED JULY 6, 1943. Class 39.

403,476. PRINTING INKS, LACQUER SOLUTIONS FOR INTENSIFYING AND PROTECTING THE IMAGE ON LITHOGRAPHIC PLATES AND ALBUMEN DEVELOPING INKS. A. E. HANDSCHY COMPANY, Chicago, Ill.
Filed December 5, 1942. Serial No. 457,220. PUBLISHED JULY 20, 1943. Class 11.

403,477. IRIDESCENT COSTUME JEWELRY—NAMELY, BEADS, NECKLACES, CLIPS, EARRINGS, PINS, AND BRACELETS. COLONIAL BEAD CO., INC., New York, N. Y.
Filed December 10, 1942. Serial No. 457,309. PUBLISHED JULY 20, 1943. Class 28.

403,478. SHOE FABRICS MADE OF COTTON, RAYON, SILK, OR COMBINATIONS THEREOF. BRISTOL FABRICS, INC., Boston, Mass.
Filed December 11, 1942. Serial No. 457,327. PUBLISHED JULY 20, 1943. Class 42.

403,479. SYNTHETIC RUBBER. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed December 14, 1942. Serial No. 457,404. PUBLISHED JULY 20, 1943. Class 1.

403,480. MEN'S AND WOMEN'S HATS. THE PACIFIC LUMBER COMPANY, San Francisco, Calif.
Filed December 15, 1942. Serial No. 457,422. PUBLISHED JUNE 22, 1943. Class 39.

403,481. NEWSPAPER COLUMN. HOWARD T. CURTISS, Utica, N. Y.
Filed December 31, 1942. Serial No. 457,677. PUBLISHED JULY 13, 1943. Class 38.

403,482. WOODEN TOOTH PICKS. STRONG WOOD TURNING CORPORATION, Strong, Maine.
Filed January 13, 1943. Serial No. 457,902. PUBLISHED JULY 20, 1943. Class 44.

403,483. MEN'S OVERCOATS. L. L. ROSENTHAL AND COMPANY, INC., Chicago, Ill.
Filed January 21, 1943. Serial No. 458,081. PUBLISHED JUNE 8, 1943. Class 39.

403,484. MEN'S OVERCOATS. L. L. ROSENTHAL AND COMPANY, INC., Chicago, Ill.
Filed January 26, 1943. Serial No. 458,182. PUBLISHED JUNE 29, 1943. Class 39.

403,485. BOTTLED PRUNE CONCENTRATE USED AS A BUTTER OR SPREAD. MAX AMS, INC., New York, N. Y.
Filed February 1, 1943. Serial No. 458,260. PUBLISHED JULY 20, 1943. Class 46.

403,486. FRESH VEGETABLES. J. L. WHAITES, Phoenix, Ariz.
Filed February 1, 1943. Serial No. 458,298. PUBLISHED JULY 20, 1943. Class 46.

403,487. PRINTED BOOKS AND PUBLICATIONS PUBLISHED PERIODICALLY. GEORGE WENDELL ADAMS, CHARLES E. HEITMAN, NELVIA E. RITCHIE, W. STUART BOOTH, FRANCIS LYSTER JANDRON, AND JOSIAH E. FERNALD, trustees under the will of Mary Baker G. Eddy, deceased, Boston, Mass.
Filed February 2, 1943. Serial No. 458,300. PUBLISHED MARCH 30, 1943. Class 38.

403,488. ASBESTOS FIBER FOR USE AS AN INSULATION FILLER. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed February 6, 1943. Serial No. 458,367. PUBLISHED JULY 20, 1943. Class 12.

403,489. SCARVES AND DICKEYS. A. C. MEYERS & COMPANY, Philadelphia, Pa.
Filed February 8, 1943. Serial No. 458,400. PUBLISHED JUNE 8, 1943. Class 39.

403,490. CORSETS, GIRDLES, BRASSIÈRES, AND CORSELETS. DOMINION CORSET COMPANY, LIMITED, Quebec, Quebec, Canada.
Filed February 13, 1943. Serial No. 458,510. PUBLISHED JUNE 1, 1943. Class 39.

403,491. DOWEL UNITS FOR CONCRETE PAVEMENT SLABS. INTEGRAL DOWEL BAR CORPORATION, Chicago, Ill.
Filed February 20, 1943. Serial No. 458,656. PUBLISHED JULY 20, 1943. Class 12.

403,492. PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON. JOSEPH BERLINGER CO., New York, N. Y.
Filed March 5, 1943. Serial No. 458,904. PUBLISHED JUNE 15, 1943. Class 42.

403,493. FLAT GLASS, TABLE, AND COOKING GLASSWARE AND GLASS BOTTLES. TORSTENSON GLASS CO., Chicago, Ill.
Filed March 5, 1943. Serial No. 458,925. PUBLISHED JULY 20, 1943. Class 33.

403,494. BOYS' CLOTHING — NAMELY, DRESS SHIRTS, SPORT SHIRTS, SUITS, CONSISTING OF COATS, VESTS, AND TROUSERS, ETC. PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y.
Filed March 6, 1943. Serial No. 458,951. PUBLISHED JUNE 22, 1943. Class 39.

403,495. FUR SCARFS. ZIMMERMAN-SCHER, INC., New York, N. Y.
Filed March 15, 1943. Serial No. 459,141. PUBLISHED JUNE 1, 1943. Class 39.

403,496. RETICULAR MATERIAL COVERED WITH A TRANSPARENT FILM USED AS A SUBSTITUTE FOR GLASS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed March 16, 1943. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 459,146. PUBLISHED July 20, 1943. Class 50.

403,497. MIXTURE COMPRISING DEXTROSE, LACTOSE, CAROTENE, CALCIUM OXIDE, MAGNESIUM OXIDE, COMPOUNDS OF SODIUM AND POTASSIUM, ETC. ERNEST D. FEAR, Kansas City, Mo.
Filed March 17, 1943. Serial No. 459,170. PUBLISHED MAY 18, 1943. Class 6.

403,498. JODHPUR BOOTS MADE OF LEATHER. KIRKENDALL BOOT COMPANY, Omaha, Nebr.
Filed March 20, 1943. Serial No. 459,244. PUBLISHED JUNE 8, 1943. Class 39.

403,499. WOMEN'S NECKTIES. MAX DAVIS & SONS, New York, N. Y.
Filed March 25, 1943. Serial No. 459,334. PUBLISHED JUNE 8, 1943. Class 39.

403,500. SCREENS—NAMELY, SCREENS FOR USE IN DE-WATERING, DRYING, AND SIZING COAL AND GRAVEL AND FOR SIMILAR PURPOSES. BIXBY-ZIMMER ENGINEERING CO., Galesburg, Ill.
Filed March 27, 1943. Serial No. 459,394. PUBLISHED JUNE 29, 1943. Class 23.

403,501. LOTION FOR USE AS A LEG MAKE-UP IN IMITATION OF HOSIERY. ELISABETH RAE LAMONT, doing business as Elisabeth Rae, New York and Mount Vernon, N. Y.
Filed March 27, 1943. Serial No. 459,416. PUBLISHED JUNE 1, 1943. Class 6.

403,502. LACQUERS, PAINT ENAMELS, VARNISHES, PRIMERS, AND PAINT THINNERS. ROXALIN FLEXIBLE FINISHES, INC., Elizabeth, N. J.
Filed March 27, 1943. Serial No. 459,440. PUBLISHED JULY 20, 1943. Class 16.

403,503. WOMEN'S DRESSES, SUITS, CAPS, HATS, AND SHOES OF ALL TYPES MADE OF LEATHER, RUBBER, FABRIC, OR ANY COMBINATION THEREOF. ZINAIDA HARPIGNIES, New York, N. Y.
Filed March 29, 1943. Serial No. 459,470. PUBLISHED JUNE 22, 1943. Class 39.

403,504. WATCHES AND WATCH MOVEMENTS. TAVANNES WATCH CO. INC., New York, N. Y.
Filed March 29, 1943. Serial No. 459,501. PUBLISHED JULY 20, 1943. Class 27.

403,505. NICKEL CONTAINING ALLOYS—NAMELY, THOSE CONTAINING NICKEL AND COPPER, IN THE FORM OF BLOOMS, BILLETS, SLABS, SHEET BARS, RODS, PLATE, SHEET, STRIP, TUBING, WIRE, WELDING RODS, CASTINGS, SHOT, AND BLOCK. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y.
Filed March 30, 1943. Serial No. 459,519. PUBLISHED JULY 20, 1943. Class 14.

403,506. BOYS' AND GIRLS' LEATHER, CANVAS, AND CLOTH SHOES. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed April 1, 1943. Serial No. 459,561. PUBLISHED JUNE 22, 1943. Class 39.

403,507. NEWSPAPER. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed April 3, 1943. Serial No. 459,593. PUBLISHED JULY 20, 1943. Class 38.

403,508. THIN GLASSINE PAPER SHEETS FOR PROTECTING AND CONDITIONING THE NIPPLES OF NURSING MOTHERS. JOHNSON PAPER AND SUPPLY COMPANY, Minneapolis, Minn.
Filed April 3, 1943. Serial No. 459,601. PUBLISHED JULY 20, 1943. Class 44.

403,509. WRITING AND PRINTING PAPER. STRATHMORE PAPER COMPANY, West Springfield, Mass.
Filed April 3, 1943. Serial No. 459,606. PUBLISHED JULY 20, 1943. Class 37.

403,510. ELECTRONIC APPARATUS FOR CONTROLLING ELECTRIC MOTORS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed April 7, 1943. Serial No. 459,697. PUBLISHED JULY 20, 1943. Class 21.

403,511. MAGAZINE. AIRCRAFT SCREW PRODUCTS COMPANY, INC., Long Island City, N. Y.
Filed April 13, 1943. Serial No. 459,821. PUBLISHED JULY 13, 1943. Class 38.

403,512. MISSES', WOMEN'S, AND JUNIOR MISSES' DRESSES, BLOUSES, DICKEYS, JERKINS, SLACKS, AND JACKETS. HARWILL BLOUSE CO., INC., Boston, Mass.
Filed April 19, 1943. Serial No. 459,996. PUBLISHED JUNE 29, 1943. Class 39.

403,513. MEN'S HATS. SOCIETY CLUB HATS CORP., New York, N. Y.
Filed April 19, 1943. Serial No. 460,008. PUBLISHED JULY 6, 1943. Class 39.

403,514. INTERNAL COMBUSTION ENGINES FOR GENERAL POWER APPLICATION INCLUDING AUTOMOTIVE, MARINE AND INDUSTRIAL POWER PLANTS, ETC. CONTINENTAL MOTORS CORPORATION, Detroit, and Muskegon, Mich.
Filed April 21, 1943. Serial No. 460,042. PUBLISHED JULY 13, 1943. Class 23.

403,515. BOTTLE CORKS. WAR STOPPER CO., San Francisco, Calif.
Filed April 21, 1943. Serial No. 460,078. PUBLISHED JULY 20, 1943. Class 50.

403,516. EXTREMELY FINE CALCIUM CARBONATE PRODUCED FROM CALCITE, A HIGH CALCIUM LIMESTONE. HARRY T. CAMPBELL SONS' CORP., Towson, Md.
Filed April 22, 1943 Serial No. 460,085. PUBLISHED JULY 20, 1943. Class 1.

403,517. OPTICAL GOODS—NAMELY, SPECTACLES, EYEGLASSES, BINOCULARS. SACHS QUALITY FURNITURE INC., New York, N. Y.
Filed April 23, 1943 Serial No. 460,126. PUBLISHED JULY 20, 1943. Class 26.

403,518. FRESH VEGETABLES. F. H. HOGUE COMPANY, also doing business as F. H. Hogue, Yuma, Ariz., and Kent, Wash.
Filed April 24, 1943. Serial No. 460,152. PUBLISHED JULY 20, 1943. Class 46.

403,519. FRESH VEGETABLES AND MELONS. F. H. HOGUE COMPANY, Yuma, Ariz., and Kent, Wash.
Filed April 24, 1943. Serial No. 460,154. PUBLISHED JULY 20, 1943. Class 46.

403,520. RADIO ANTENNA AND TRANSMISSION LINE EQUIPMENT—NAMELY, COAXIAL ANTENNAS, COAXIAL CABLES AND PARTS THEREFOR, ETC. VICTOR J. ANDREW CO., Chicago, Ill.
Filed April 26, 1943. Serial No. 460,167. PUBLISHED JULY 20, 1943. Class 21.

403,521. RADIO ANTENNA AND TRANSMISSION LINE EQUIPMENT—NAMELY, COAXIAL ANTENNAS, COAXIAL CABLES AND PARTS THEREFOR, ETC. VICTOR J. ANDREW CO., Chicago, Ill.
Filed April 26, 1943. Serial No. 460,168. PUBLISHED JULY 20, 1943. Class 21.

403,522. LENS GRINDING AND POLISHING MACHINERY, LENS EDGING MACHINERY, LENS GRINDING LAP TRUING MACHINERY, LENS DRILLING MACHINERY, AND ACCESSORIES THEREFOR. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed April 26, 1943. Serial No. 460,169. PUBLISHED JUNE 15, 1943. Class 23.

403,523. POLISH AND CLEANER FOR AUTOMOBILES AND FOR PAINTED, VARNISHED, OR LACQUERED SURFACES. CLAYTON H. TROTTI, Greenwood, S. C.
Filed April 27, 1943. Serial No. 460,223. PUBLISHED JULY 13, 1943. Class 16.

403,524. PLOWS, PLOWSHARES, MOLDBOARDS, PLOW-POINTS, LANDSIDES, PLOW-STANDARDS, PLOW-BEAMS, PLOW-HANDLES, AND DISK HARROWS. LEVENE MOTOR COMPANY, doing business as The Bucher & Gibbs Plow Company, Philadelphia, Pa.
Filed April 29, 1943. Serial No. 460,263. PUBLISHED JUNE 22, 1943. Class 23.

403,525. CANNED TUNA. COLUMBIA RIVER SALMON CO. INC., Astoria, Oreg.
Filed April 30, 1943. Serial No. 460,289. PUBLISHED JULY 20, 1943. Class 46.

403,526. OLIVES IN GLASS. V. R. SMITH, doing business as V. R. Smith Olive Company, Lindsay, Calif.
Filed May 3, 1943. Serial No. 460,393. PUBLISHED JULY 20, 1943. Class 46.

403,527. RAKES, TAMPERS, SMOOTHERS, STONE AND BINDER FORKS, SHOVELS, PATCHING HOES, POURING POTS, SPRINKLING POTS. ETC. LANCASTER IRON WORKS, INC., Lancaster, Pa.
Filed May 4, 1943. Serial No. 460,403. PUBLISHED JUNE 29, 1943. Class 23.

403,528. CRAVATS. CHARLES H. LEVY CO. INC., New Orleans, La.
Filed May 4, 1943. Serial No. 460,405. PUBLISHED JULY 6, 1943. Class 39.

403,529. WRENCHES. JOSEPH A. COGBILL, doing business as Dixie Tool Company, Newark, N. J.
Filed May 5, 1943. Serial No. 460,418. PUBLISHED JUNE 22, 1943. Class 23.

403,530. TOOL IN THE NATURE OF A JACK FOR USE IN PULLING, PUSHING, SPREADING, BENDING, CLAMPING, AND LIFTING OPERATIONS. TEMPLETON, KENLY & CO., Chicago, Ill.
Filed May 6, 1943. Serial No. 460,459. PUBLISHED JULY 13, 1943. Class 23.

403,531. NAIL-BUFFERS, NAIL FILES, MANICURE-STICKS, MANICURE KNIVES, TWEEZERS, NAIL CLIPPERS, NAIL SCISSORS, NAIL NIPPERS, AND NAIL POLISHERS. C. J. BATES & SON, Chester, Conn.
Filed May 7, 1943. Serial No. 460,467. PUBLISHED JULY 20, 1943. Class 44.

403,532. LACQUER COATINGS USED IN BONDING PLASTIC SHEETING TO ITSELF, TO LEATHER, WOOD, METALS, ETC. CORROSION CONTROL CORPORATION, Norwalk, Conn.
Filed May 8, 1943. Serial No. 460,496. PUBLISHED JULY 20, 1943. Class 5.

403,533. DAILY FINANCIAL NEWS AND STATISTICAL LETTERS. FRANCIS I. DU PONT & CO., New York, N. Y.
Filed May 13, 1943. Serial No. 460,597. PUBLISHED JULY 20, 1943. Class 38.

403,534. MECHANICAL PENCILS AND FOUNTAIN PENS. AMERICAN LEAD PENCIL COMPANY, Hoboken, N. J.
Filed May 14, 1943. Serial No. 460,607. PUBLISHED JULY 20, 1943. Class 37.

403,535. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF, FOR MEN, WOMEN, AND CHILDREN. EDWIN CLAPP & SON, INCORPORATED, East Weymouth, Mass.
Filed May 14, 1943. Serial No. 460,611. PUBLISHED JULY 20, 1943. Class 39.

403,536. INDUSTRIAL DIAMOND TOOLS. JACQUES F. KARELSEN, New York, N. Y.
Filed May 14, 1943. Serial No. 460,616. PUBLISHED JULY 6, 1943. Class 23.

403,537. CORE COMPOUND FOR FOUNDRY USE. HUGH S. STOLLER, doing business as Stoller Chemical Company, Akron, Ohio.
Filed May 15, 1943. Serial No. 460,660. PUBLISHED JULY 20, 1943. Class 1.

403,538. TEXTILE FABRICS IN THE PIECE MADE OF SILK, RAYON, AND A MIXTURE THEREOF. L. & E. STIRN INC., New York, N. Y.
Filed May 18, 1943. Serial No. 460,717. PUBLISHED JULY 20, 1943. Class 42.

403,539. TEXTILE FABRICS IN THE PIECE MADE OF SILK, RAYON AND A MIXTURE THEREOF. L. & E. STIRN INC., New York, N. Y.
Filed May 18, 1943. Serial No. 460,718. PUBLISHED JULY 20, 1943. Class 42.

403,540. OPTICAL FRAMES, MOUNTINGS, LENSES AND PARTS THEREOF. S. S. HOLLENDER, INC., Chicago, Ill.
Filed May 19, 1943. Serial No. 460,737. PUBLISHED JULY 20, 1943. Class 26.

403,541. FURNITURE—NAMELY, LAMP TABLES, END TABLES, COCKTAIL TABLES, DRUM TABLES, DESKS, AND COMMODES. AMERICAN FURNITURE NOVELTY CO., Chicago, Ill.
Filed May 20, 1943. Serial No. 460,749. PUBLISHED JULY 20, 1943. Class 32.

403,542. FLEXIBLE SHAFTS AND ACCESSORIES THEREFOR. STOW MANUFACTURING COMPANY, INC., Binghamton, N. Y.
Filed May 20, 1943. Serial No. 460,777. PUBLISHED JULY 13, 1943. Class 23.

403,543. LADIES', MISSES', AND CHILDREN'S HANDBAGS AND POCKETBOOKS. BELT MODES, INC., New York, N. Y.
Filed May 21, 1943. Serial No. 460,787. PUBLISHED JULY 20, 1943. Class 3.

403,544. RIVET DELIVERING TOOL. THE MURRAY CORPORATION OF AMERICA, Detroit, Mich.
Filed May 21, 1943. Serial No. 460,805. PUBLISHED JULY 13, 1943. Class 23.

403,545. RADIO TELEPHONE, TELEGRAPH, AND FACSIMILE TRANSMITTERS; RADIO TELEPHONE, TELEGRAPH, AND FACSIMILE RECEIVERS, AND COMPONENT PARTS OF EACH OF THE FOREGOING. PRESS WIRELESS, INC., Chicago, Ill.
Filed May 25, 1943. Serial No. 460,905. PUBLISHED JULY 20, 1943. Class 21.

403,546. CHAMOIS FOR CLEANSING AND POLISHING PURPOSES. JAMES H. RHODES & COMPANY, Chicago, Ill.
Filed May 26, 1943. Serial No. 460,936. PUBLISHED JULY 20, 1943. Class 4.

403,547. CHAMOIS FOR CLEANSING AND POLISHING PURPOSES. JAMES H. RHODES & COMPANY, Chicago, Ill.
Filed May 26, 1943. Serial No. 460,937. PUBLISHED JULY 20, 1943. Class 4.

403,548. HONEY. GERBER & CO. INC., New York, N. Y.
Filed May 28, 1943. Serial No. 460,993. PUBLISHED JULY 20, 1943. Class 46.

403,549. TOY WAGONS. G AND G MANUFACTURING COMPANY, INC., Memphis, Tenn.
Filed May 31, 1943. Serial No. 461,046. PUBLISHED JULY 20, 1943. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

403,550. (CLASS 38. PRINTS AND PUBLICATIONS.) ZIFF-DAVIS PUBLISHING COMPANY, Chicago, Ill. Filed Nov. 17, 1939. Serial No. 425,771.

POPULAR Television

FOR A PERIODICAL, PARTICULARLY DIRECTED TO THE SUBJECT OF TELEVISION AND ASSOCIATED SUBJECTS.
Claims use since Dec. 1, 1938.

403,551. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CONTINENTAL PISTON RING COMPANY, Memphis, Tenn. Filed July 22, 1940. Serial No. 434,204.

HI-SPEED

FOR PISTON RINGS.
Claims use since July 1, 1940.

403,552. (CLASS 37. PAPER AND STATIONERY.) JOHN C. STEPHAN, Cleveland, Ohio. Filed Mar. 11, 1941. Serial No. 441,454.

TUPURPOS

FOR ENVELOPES.
Claims use since Mar. 5, 1941.

403,553. (CLASS 39. CLOTHING.) THE H. W. GOSSARD CO., Chicago, Ill. Filed June 4, 1941. Serial No. 444,180.

Biasnet

FOR CORSETS, GIRDLES, STEP-IN CORSETS, PANTIES, AND COMBINATION CORSETS AND BRASSIÈRES.
Claims use since May 14, 1941.

403,554. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BARTMANN & BIXER INC., New York, N. Y. Filed June 27, 1941. Serial No. 444,889.

SPINDLTWIST

FOR WINDOW CURTAINS.
Claims use since May 24, 1941.

403,555. (CLASS 38. PRINTS AND PUBLICATIONS.) DOUGLAS FIR PLYWOOD ASSOCIATION, Tacoma, Wash. Filed Feb. 26, 1942. Serial No. 451,227.

Building Page COPY

FOR A MONTHLY PUBLICATION.
Claims use since June 5, 1941.

403,556. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed Mar. 23, 1942. Serial No. 451,836.

Stencil Art Nets

FOR NET CURTAINS.
Claims use since Feb. 16, 1942.

403,557. (CLASS 39. CLOTHING.) WIMELBACHER & RICE, New York, N. Y. Filed June 13, 1942. Serial No. 453,656.

"TRICOSUEDE"

FOR LADIES' FABRIC GLOVES.
Claims use since Mar. 23, 1942.

403,558. (CLASS 39. CLOTHING.) DON-ED FABRICS, INC., New York, N. Y. Filed July 30, 1942. Serial No. 454,599.

DURMA-GARD

FOR MEN'S AND WOMEN'S WORK SLEEVES.
Claims use since May 1, 1942.

403,559. (CLASS 39. CLOTHING.) NELSON-CAINE, New York, N. Y. Filed Aug. 4, 1942. Serial No. 454,719.

Kitty Kane

FOR LADIES' AND MISSES' DRESSES, COATS, SKIRTS, BLOUSES, AND SUITS.
Claims use since July 17, 1942.

403,560. (CLASS 39. CLOTHING.) LEHIGH SAFETY SHOE CO., INC., Allentown, Pa., assignor to Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York. Filed Aug. 24, 1942. Serial No. 455,076.

Lockrim

FOR SAFETY SHOES.
Claims use since July 1, 1942.

403,561. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) F & H MANUFACTURING COMPANY, Los Angeles, Calif. Filed Oct. 12, 1942. Serial No. 456,139.

WEDGE LOCK

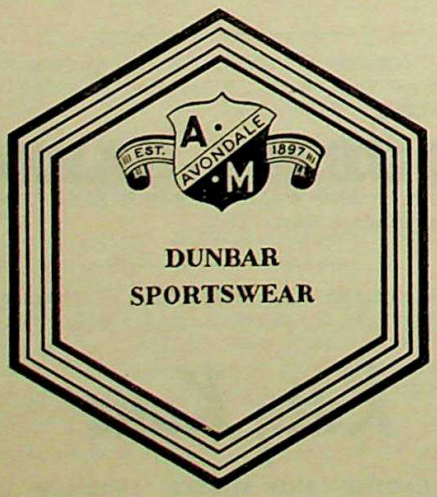
FOR SPRING OPERABLE DEVICES FOR TEMPORARILY HOLDING TOGETHER METAL AND ANALOGOUS SHEETS AND SAFETY PLIERS FOR APPLYING SAID DEVICES.
Claims use since Aug. 6, 1941.

403,562. (CLASS 39. CLOTHING.) BEN S. GREENBLAT, Brooklyn, N. Y. Filed Oct. 22, 1942. Serial No. 456,337.

CORECTOFORM

FOR SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS OF SUCH MATERIALS.
Claims use since 1939.

403,563. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AVONDALE MILLS, Sylacauga, Ala. Filed Oct. 26, 1942. Serial No. 456,415.



FOR COTTON PIECE GOODS.
Claims use since July 15, 1940.

403,564. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BENDIX AVIATION CORPORATION, South Bend, Ind. Filed Jan. 4, 1943. Serial No. 457,735.

Aerotype

FOR CARBURETORS AND ACCESSORIES THEREFOR.
Claims use since Aug. 1, 1936.

403,565. (CLASS 39 CLOTHING.) BEST & CO. INC., New York, N. Y. Filed Jan. 16, 1943. Serial No. 457,944.

STORMY WEATHER

FOR WOMEN'S, MISSES', AND CHILDREN'S WEARING APPAREL—NAMELY, DRESSES, COATS, SUITS, HATS, VESTS, OUTERSKIRTS, BLOUSES, WAISTS, TROUSERS, SLACKS, PLAY SUITS, AND OUTER SHORTS; MEN'S, WOMEN'S, AND CHILDREN'S WEARING APPAREL—NAMELY, SNOW SUITS AND SKI CLOTHES, I. E., SUITS, HOODS, PARKAS, HATS, CAPS, MITTENS, GLOVES, SOCKS, SCARVES, JACKETS AND BOOTS; RIDING HABITS AND BREECHES, SPORT COATS, UNDERPANTS, UNDERVESTS, AND UNION SUITS; MEN'S AND BOYS' COATS, OVERCOATS, VESTS, TROUSERS, KNICKERS, SHORTS, HATS, AND CAPS; AND SWEATERS, BATHROBES, PAJAMAS, SOCKS, STOCKINGS, SCARVES; GLOVES OF FUR OR LEATHER OR FABRICS OR COMBINATIONS THEREOF; AND SHOES, SLIPPERS, HOUSE SLIPPERS, ARCTICS, AND OVERSHOES MADE OF LEATHER OR TEXTILE FABRICS OR COMBINATIONS THEREOF.
Claims use since June 28, 1942.

403,566. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Mar. 25, 1943. Serial No. 459,344.

McKesson's

PHOSPHO VITAMIN-B

FOR PREPARATION FOR TREATMENT OF THE NERVES.
Claims use since Nov. 8, 1932.

403,567. (CLASS 38. PRINTS AND PUBLICATIONS.) AHRENS PUBLISHING COMPANY, INC., New York, N. Y., and Chicago, Ill., assignor to Restaurant Publications, Inc., a corporation of New York. Filed Mar. 27, 1943. Serial No. 459,388.

Restaurant Management

THE PICTORIAL MAGAZINE OF A Thousand PROFIT-MAKING IDEAS

FOR A PERIODICAL.
Claims use since January 1942.

403,568. (CLASS 38. PRINTS AND PUBLICATIONS.) AHRENS PUBLISHING COMPANY, INC., New York, N. Y., and Chicago, Ill. Filed Mar. 27, 1943. Serial No. 459,389.

TRAVEL AMERICA GUIDE

FOR A PERIODICAL.
Claims use since 1935.

403,569. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GRAEF & SCHMIDT, INC., New York, N. Y. Filed Mar. 31, 1943. Serial No. 459,542.

"Platinum"

FOR CUTLERY—NAMELY, RAZORS.
Claims use since 1912.

403,570. (CLASS 39. CLOTHING.) CHESTER HEROLD, San Jose, Calif. Filed May 18, 1943. Serial No. 460,696.

HEROLD'S

The HOUSE of UNUSUAL SIZES

FOR BOOTS, SHOES, AND SLIPPERS OF LEATHER AND FABRIC OR COMBINATIONS THEREOF FOR MEN, WOMEN, AND CHILDREN.
Claims use since Aug. 7, 1942.

403,571. (CLASS 39. CLOTHING.) PACKARD DRESSES, INC., New York, N. Y. Filed May 18, 1943. Serial No. 460,710.

a design classic
Packard Casual

FOR LADIES' AND MISSES' DRESSES AND DRESS ENSEMBLES CONSISTING OF DRESS AND JACKET.
Claims use since Feb. 25, 1942.

403,572. (CLASS 39. CLOTHING.) WILLIAM FREIMAN, New York, N. Y. Filed May 22, 1943. Serial No. 460,835.

Peggy Patrick

FOR LADIES', MISSES', AND JUNIOR MISSES' BLOUSES, OUTER SKIRTS, AND DRESSES.
Claims use since July 12, 1941.

403,573. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SHIRLEY FABRICS CORPORATION, New York, N. Y. Filed May 31, 1943. Serial No. 461,058.

CYNTHIA

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, WOOL, AND COMBINATIONS THEREOF.
Claims use since Feb. 13, 1933.

403,574. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) A. SMITH & SON, INCORPORATED, Philadelphia, Pa. Filed June 11, 1943. Serial No. 461,330.

Reeves

FOR STRETCHERS.
Claims use since March 1903.

403,575. (CLASS 39. CLOTHING.) IRA J. WEINBAUM, doing business as Ira Sportswear Company, Boston, Mass. Filed June 11, 1943. Serial No. 461,333.

Ann Leslie

FOR WOMEN'S AND MISSES' SHIRTS, BLOUSES, SLACKS, SLACK SETS, AND PLAY SUITS.
Claims use since Apr. 1, 1941.

403,576. (CLASS 39. CLOTHING.) MACRAE SPORTSWEAR CO., INC., New York, N. Y. Filed June 16, 1943. Serial No. 461,439.

Macrae

FOR MEN'S AND BOYS' COATS, SUITS, SLACKS, COVERALLS, SPORT JACKETS, AND LEISURE COATS.
Claims use since Apr. 15, 1942.

403,577. (CLASS 39. CLOTHING.) I. M. BREGSTEIN & SONS, INC., New York, N. Y. Filed June 25, 1943. Serial No. 461,647.

IMB

Briggs

FOR LADIES', MISSES', GIRLS', AND CHILDRENS' COATS, SUITS, JACKETS, COAT AND SUIT ENSEMBLES, SKIRTS, BLOUSES, COVERALLS, SLACKS, TOPCOATS, AND RAINCOATS, AND MEN'S AND BOYS' COATS, SUITS, JACKETS, SLACKS, TOPCOATS, AND RAINCOATS.
Claims use since February 1941.

403,578. (CLASS 39. CLOTHING.) EAGLE CLOTHES, New York, N. Y. Filed June 25, 1943. Serial No. 461,653.

Scott-Barrir

FOR WOMEN'S CLOTHING—NAMELY, COATS, TOPCOATS, AND SUITS.
Claims use since Jan. 9, 1941.

403,579. (CLASS 39. CLOTHING.) WOLF & BARSE, INC., New York, N. Y. Filed June 25, 1943. Serial No. 461,673.

Andorra

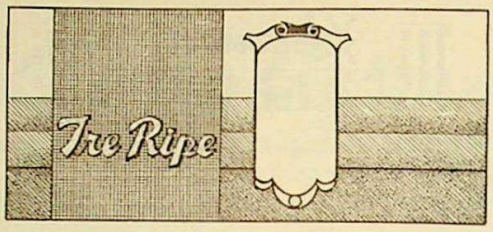
FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since May 1937.

403,580. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DENVER AND RIO GRANDE WESTERN RAILROAD COMPANY, Denver, Colo. Filed June 28, 1943. Serial No. 461,714.

Rio Grande

FOR BOOKLETS OR PAMPHLETS PUBLISHED FROM TIME TO TIME.
Claims use since June 27, 1940.

403,581. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FILICE & PERRELLI CANNING COMPANY INCORPORATED, Richmond, Calif. Filed July 5, 1943. Serial No. 461,867.



FOR CANNED FRUITS.
Claims use since June 1, 1922.

403,582. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SANDPAPER INCORPORATED, Waltham, Mass. Filed July 16, 1943. Serial No. 462,124.

PHENOBOND

FOR COATED ABRASIVES.
Claims use since June 16, 1941.

403,583. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed July 22, 1943. Serial No. 462,235.

Kem-Tone
ROLLER-KOATER

FOR ROLLING DEVICE FOR THE APPLICATION OF PAINTS AND KINDRED PRODUCTS.
Claims use since Apr. 15, 1942.

403,584. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed July 22, 1943. Serial No. 462,236.

ROLLER-KOATER

FOR ROLLING DEVICE FOR THE APPLICATION OF PAINTS AND KINDRED PRODUCTS.
Claims use since Apr. 15, 1942.

403,585. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed July 30, 1943. Serial No. 462,401.

DUNHILL

FOR CLOCKS AND WATCHES.
Claims use since Aug. 23, 1930.

TRADE-MARK REGISTRATIONS RENEWED

167,030. **THE AMERICAN BOY.** ATHLETIC OUTFITS. Registered April 24, 1923. THOS. E. WILSON & Co. Renewed April 24, 1943, to Wilson Sporting Goods Co., Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

169,251. **"RED BALL TRANSIT CO." AND DRAWING.** MOVING-VANS OR TRUCKS. Registered June 12, 1923. WARD B. HINER, doing business as Red Ball Transit Company. Renewed June 12, 1943, to Vienna Hiner, Indianapolis, Ind., successor.

170,107. **AVALON.** CIGARS. Registered July 10, 1923. PEOPLES DRUG STORES, INC., Washington, D. C. Renewed July 10, 1943, to Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware, successor.

172,055. **ADVANCE.** HAME ATTACHMENTS. Registered August 21, 1923. U. S. HAME COMPANY, Buffalo, N. Y. Renewed August 21, 1943, to North and Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut, assignee.

172,378. **VENIDA.** LIP STICKS, FACE POWDERS, ROUGE, COMPACT POWDERS, AND TALCUM POWDERS. Registered August 28, 1923. THE RIESER COMPANY. Renewed August 28, 1943, to Rieser Company, Inc., New York, N. Y., a corporation of New York, assignee.

172,404. **CRESCENT.** BOX SPRINGS. Registered August 28, 1923. THE INTERNATIONAL BEDDING COMPANY, Baltimore, Md., a corporation of Maryland. Renewed August 28, 1943.

172,746. **"ABC" AND DRAWING.** AUTOGENOUS PRODUCT IN THE NATURE OF URINE VACCINE. Registered September 11, 1923. T. WILSON DEACHMAN, Chicago, Ill. Renewed September 11, 1943.

172,763. **SILVERBROOK.** BUTTER. Registered September 11, 1923. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, New York, N. Y., a corporation of New Jersey. Renewed September 11, 1943.

172,804. **MAJESTIC.** STEAMERS, SEAMLESS STEAM KETTLES, COPPER-JACKETED KETTLES, SAUCEPAN RACKS, RANGE FLOOR BOARDS, SINKS, COFFEE URNS, HOT-WATER URNS, URN BATTERIES, SIPHON URNS, COFFEE MACHINES, STEAM TABLES, AND CERTAIN OTHER FOOD COOKING AND PREPARING APPLIANCES. Registered September 11, 1923. MAJESTIC MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed September 11, 1943.

172,821. **TRU-FORM.** LEATHER SHOES AND STORM RUBBERS FOR MEN, WOMEN, AND CHILDREN. Registered September 11, 1923. O. FUHRMAN, INC. Renewed September 11, 1943, to Tru-Form, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

173,423. **LIFETIME.** FOUNTAIN PENS. Registered September 25, 1923. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa, a corporation of Delaware. Renewed September 25, 1943.

173,456. **PILGRIM.** LUBRICATING OILS AND GREASES. Registered September 25, 1923. THE WESTERN RESERVE OIL COMPANY, Cleveland, Ohio. Renewed September 25, 1943, to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware, assignee by mesne assignments.

174,191. **WAFFELWEVE.** SILK PIECE GOODS. Registered October 9, 1923. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Renewed October 9, 1943, to William Skinner & Sons, Holyoke, Mass., and New York N. Y., common-law trust of Massachusetts, assignee.

174,208. **ARATITE.** POWDERED VEGETABLE GLUES. Registered October 9, 1923. THE ARABOL MANUFACTURING CO., New York, N. Y., a corporation of New York. Renewed October 9, 1943.

174,209. **ARASTRIP.** POWDERED VEGETABLE GLUES. Registered October 9, 1923. THE ARABOL MANUFACTURING CO., New York, N. Y., a corporation of New York. Renewed October 9, 1943.

174,254. **"3 POINT" AND DRAWING.** MEN'S, YOUTH'S, AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS. Registered October 9, 1923. LEVI STRAUSS AND COMPANY, San Francisco, Calif., a corporation of California. Renewed October 9, 1943.

174,558. **ARCH LOCK.** FIRE AND OTHER BRICK OF SUBSTANTIALLY UNIFORM DIMENSIONS AND FOR USE OTHER THAN ARCH-BUILDING PURPOSES. Registered October 23, 1923. AMERICAN ARCH COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 23, 1943.

174,561. **WAND.** DISH, BOTTLE AND POT MOPS. Registered October 23, 1923. THE CHORE-UTENSILS CORPORATION OF AMERICA, Orange, N. J. Renewed October 23, 1943, to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware, assignee.

174,768. **"STILETTO" AND DRAWING.** GARDEN HOSE. Registered October 23, 1923. BAKER, HAMILTON AND PACIFIC COMPANY. Renewed October 23, 1943, to Baker & Hamilton, San Francisco, Calif., a corporation of California, by change of name.

174,833. **PARACLOX.** HOSIERY. Registered October 23, 1923. BEAR BRAND HOSIERY CO., Chicago, Ill. Renewed October 23, 1943, to Bear Brand Hosiery Co., Kankakee and Chicago, Ill., a corporation of Illinois.

175,308. **DIAMOND.** GALVANIZING. Registered November 6, 1923. DIAMOND EXPANSION BOLT CO., New York, N. Y. Renewed November 6, 1943, to Diamond Expansion Bolt Company, Incorporated, Garwood, N. J., a corporation of New Jersey, assignee.

175,472. **"ACCO" AND DRAWING.** RAW COTTON. Registered November 6, 1923. ANDERSON, CLAYTON & Co., Houston, Tex., a joint stock association. Renewed November 6, 1943.

175,554. **REPRESENTATION OF A DIAMOND.** RINGS FOR STRINGING BRIDLE WIRES, MORE SPECIFICALLY KNOWN IN THE TRADE AS "DRIVE RINGS," "BRIDLE RINGS," AND "CABLE CLAMP RINGS". Registered November 6, 1923. DIAMOND EXPANSION BOLT CO., New York, N. Y. Renewed November 6, 1943, to Diamond Expansion Bolt Company, Incorporated, Garwood, N. J., a corporation of New Jersey, assignee.

175,555. **DIAMOND.** RINGS FOR STRINGING BRIDLE WIRES, MORE SPECIFICALLY KNOWN IN THE TRADE AS "DRIVE RINGS", "BRIDLE RINGS" AND "CABLE CLAMP RINGS". Registered November 6, 1923. DIAMOND EXPANSION BOLT CO., New York, N. Y. Renewed November 6, 1943, to Diamond Expansion Bolt Company, Incorporated, Garwood, N. J., a corporation of New Jersey, assignee.

175,948. **CORTEZ.** HOSIERY. Registered November 13, 1923. THE PARAMOUNT KNITTING COMPANY, Chicago, Ill., assignor to Bear Brand Hosiery Co., Chicago, Ill. Renewed November 13, 1943, to Bear Brand Hosiery Co., Kankakee and Chicago, Ill., a corporation of Illinois, assignee.

176,158. **HOLIDAY.** CANNED FRUITS AND CANNED VEGETABLES. Registered November 20, 1923. NEW YORK CANNERS, INC., Rochester, N. Y. Renewed November 20, 1943, to General Foods Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

176,454. **APOLLO.** DRESS AND TOP SHIRTS. Registered November 27, 1923. APOLLO SHIRT COMPANY. Renewed November 27, 1943, to Apollo Shirt Company, New York, N. Y., a copartnership, assignee by mesne assignments.

176,550. **LAKESIDE.** GAUZE AND ABSORBENT COTTON. Registered November 27, 1923. BAUER & BLACK, Chicago, Ill. Renewed November 27, 1943, to The Kendall Company, Boston, Mass., and Chicago, Ill., a corporation of Massachusetts, assignee.

176,963. **REYNOLD'S RELIANCE.** COFFEE. Registered December 11, 1923. WM. T. REYNOLDS & CO. INC. Renewed December 11, 1943, to Millard & Son, Poughkeepsie, N. Y., a firm, assignee by mesne assignments.

177,267. **B B.** COTTON PIECE GOODS. Registered December 11, 1923. THE JOHN P. KING MANUFACTURING CO., Augusta, Ga., a corporation of Georgia. Renewed December 11, 1943.

177,342. **CHECK-A-CHECK.** SILK PIECE GOODS. Registered December 18, 1923. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Renewed December 18, 1943, to William Skinner & Sons, Holyoke, Mass., and New York, N. Y., a common-law trust of Massachusetts, assignee.

177,376. **CHEYENNE.** HOSIERY. Registered December 18, 1923. BEAR BRAND HOSIERY CO., Kankakee and Chicago, Ill., a corporation of Illinois. Renewed December 18, 1943.

177,386. **KERR.** CERTAIN DENTAL TOOLS, INSTRUMENTS, AND SUPPLIES. Registered December 18, 1923. DETROIT DENTAL MANUFACTURING COMPANY. Renewed December 18, 1943, to Kerr Dental Manufacturing Co., Detroit, Mich., a corporation of Michigan, by change of name.

177,566. **MARQUETTE.** HOSIERY. Registered December 18, 1923. BEAR BRAND HOSIERY CO., Kankakee and Chicago, Ill., a corporation of Illinois. Renewed December 18, 1943.

177,567. **LASALLE.** HOSIERY. Registered December 18, 1923. BEAR BRAND HOSIERY CO., Kankakee and Chicago, Ill., a corporation of Illinois. Renewed December 18, 1943.

177,646. **"STILETTO" AND DRAWING.** CERTAIN NAMED CUTLERY AND TOOLS. Registered December 25, 1923. BAKER, HAMILTON & PACIFIC COMPANY. Renewed December 25, 1943, to Baker & Hamilton, San Francisco, Calif., a corporation of California, by change of name.

177,703. **HUDSON'S.** FLAVORING EXTRACTS FOR FOOD. Registered December 25, 1923. HUDSON MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed December 25, 1943.

177,706. **"GOLD MEDAL" AND DRAWING.** RAW AND PASTEURIZED MILK AND CREAM, CERTIFIED MILK AND BUTTERMILK. Registered December 25, 1923. SUPPLEE-WILLS-JONES MILK COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed December 25, 1943.

177,718. **BALKITE.** BATTERY CHARGERS. Registered December 25, 1923. FANSTEEL PRODUCTS COMPANY, INC. Renewed December 25, 1943, to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York, by change of name.

177,937. **"KINLOCH" AND DRAWING.** KNITTED BATHING SUITS, SWEATERS, JACKETS, AND MEN'S AND WOMEN'S SCARFS. Registered January 1, 1924. S. L. GILBERT & CO. INC. Renewed January 1, 1944, to S. L. Gilbert, New York, N. Y., successor.

178,205. **"INDIAN HEAD" AND DRAWING.** CERTAIN AGRICULTURAL IMPLEMENTS AND HANDLES FOR SAME, AND HACK SAWS. Registered January 8, 1924. MARKT & HAMMACHER COMPANY, doing business as American Manufacturing Company, New York, N. Y., a corporation of New Jersey. Renewed January 8, 1944.

178,339. **"ALLOWAY'S TABLE TEST" AND DRAWING.** BUTTER, LIVE AND DRESSED POULTRY, AND EGGS. Registered January 8, 1924. ALLOWAY BROTHERS. Renewed January 8, 1944, to Alloway Brothers Company, Nashville, Tenn., a corporation of Tennessee, successor.

178,543. **TANGEE.** LIP STICK AND ROUGE. Registered January 15, 1924. THE GEORGE W. LUFT COMPANY, INC. Renewed January 15, 1944, to The George W. Luft Company, Inc., Long Island City, N. Y., a corporation of New York, assignee.

178,803. **SIMPLIMATIC.** LATHES. Registered January 29, 1924. GISHOLT MACHINE COMPANY, Madison, Wis., a corporation of Wisconsin. Renewed January 29, 1944.

178,810. **LADY LOVE.** CHOCOLATES. Registered January 29, 1924. BUSY BEE CANDY COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed January 29, 1944.

178,858. **SANITOL.** CERTAIN TOILET PREPARATIONS. Registered January 29, 1924. SANITOL CHEMICAL LABORATORY COMPANY, now by change of name, The Sanitol Company, St. Louis, Mo., and New York, N. Y. Renewed January 29, 1944, to The Sanitol Company, New York, N. Y., a corporation of Missouri, by change of name.

178,859. **SANITOL.** SHAVING SOAP, SHAVING POWDER, SHAVING-SOAP CREAM, AND TOILET SOAP. Registered January 29, 1924. SANITOL CHEMICAL LABORATORY COMPANY, now by change of name, The Sanitol Company, St. Louis, Mo., and New York, N. Y. Renewed January 29, 1944, to The Sanitol Company, New York, N. Y., a corporation of Missouri, by change of name.

178,870. **CHIFFONELLE.** COTTON PIECE GOODS. Registered January 29, 1924. THE CALICO PRINTERS' ASSOCIATION, LIMITED, Manchester, England, a United Kingdom corporation. Renewed January 29, 1944.

178,993. **REPRESENTATION OF A LITTLE GIRL.** CANDIES. Registered February 5, 1924. ALTON L. MILLER, doing business as Charles N. Miller Co. Renewed February 5, 1944, to Charles N. Miller Co., Boston, Mass., a corporation of Massachusetts, assignee.

179,057. **ABBEY.** CANNED FRUITS AND VEGETABLES. Registered February 5, 1924. BEESEMYER-WAGGONER, INC., Los Angeles, Calif. Renewed February 5, 1944, to Norman L. Waggoner, Inc., San Francisco, Calif., a corporation of California, by change of name.

179,058. **AVALON.** CANNED FRUITS AND VEGETABLES. Registered February 5, 1924. BEESEMYER-WAGGONER, INC., Los Angeles, Calif. Renewed February 5, 1944, to Norman L. Waggoner, Inc., San Francisco, Calif., a corporation of California, by change of name.

179,082. **"SUNBURNTINE" AND DRAWING.** OINTMENT OR SALVE FOR SUNBURN, WINDBURN, SCALDS, CUTS, BURNS, CHILBLAINS, CHAFES, AND CHAPS. Registered February 5, 1924. WESTERN WHOLESALE DRUG CO., also doing business as R. H. Brown & Co., Los Angeles, Calif. Renewed February 5, 1944, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, assignee by mesne assignments.

179,108. **CELLAL.** ENAMEL PAINT. Registered February 5, 1924. C. A. WOOLSEY PAINT & COLOR COMPANY, Jersey City, N. J. Renewed February 5, 1944, to C. A. Woolsey Paint & Color Co. Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

179,115. **"BLUE INN" AND DRAWING.** GINGER ALE, SARSAPARILLA, AND ROOT BEER. Registered February 5, 1924. JOHN FRIEDRICH. Renewed February 5, 1944, to Blue Anchor Beverage Company, Philadelphia, Pa., a corporation of Pennsylvania, assignee.

179,218. **EXCEPTIONAL.** FRESH CITROUS FRUIT. Registered February 5, 1924. MUPU CITRUS ASSOCIATION, Santa Paula, Calif., a corporation of California. Renewed February 5, 1944.

179,222. **SALT AIR.** CANNED PEAS. Registered February 5, 1924. SAN JUAN ISLANDS CANNERY, Mount Vernon, Wash., a corporation of Washington. Renewed February 5, 1944.

179,226. **MODEL BOND.** BOND PAPER FOR PRINTING PURPOSES. Registered February 5, 1924. THE CALVERT LITHOGRAPHING COMPANY, Detroit, Mich., a corporation of Michigan. Renewed February 5, 1944.

179,237. **"RUSCO" AND DRAWING.** BRAKE LINING. Registered February 5, 1924. THE RUSSELL MANUFACTURING CO., Middletown, Conn., a corporation of Connecticut. Renewed February 5, 1944.

179,287. **"IVINS" AND DRAWING.** COOKIES, CAKES AND CRACKERS. Registered February 5, 1924. J. S. IVIN'S SON, INC. Renewed February 5, 1944, to J. S. Ivin's Son, Inc., Philadelphia, Pa., a corporation of Delaware, assignee.

179,359. **SUNKIST.** BEVERAGE-DISPENSING FOUNTAINS. Registered February 5, 1924. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif., a corporation of California. Renewed February 5, 1944.

179,466. **VIRGINIA DARE.** PRESERVED CRUSHED FRUITS FOR SODA-FOUNTAIN PURPOSES. Registered February 12, 1924. THE VIRGINIA DARE COMPANY. Renewed February 12, 1944, to Virginia Dare Confections, Inc., Baltimore, Md., a corporation of Maryland, by change of name.

179,471. **"AMERICAN BEAUTIES" AND DRAWING.** PORK AND BEANS AND CANNED CONCENTRATED STRAINED TOMATOES. Registered February 12, 1924. EDWARD V. STOCKHAM, INC., Havre de Grace, Md., a corporation of Maryland. Renewed February 12, 1944.

179,484. **ESSO BOND.** FURNACE CEMENT IN LAYING UP FIRE BRICK AND KINDRED USES. Registered February 12, 1924. THE S. OBERMAYER CO., Chicago, Ill., a corporation of Ohio. Renewed February 12, 1944.

179,529. **"PIPIAN RANCHERO" AND DRAWING.** MIXTURE OF DRIED CHILI AND SPICES—NAMELY, CANNED CHILI. Registered February 12, 1924. PABLO BACA, doing business as La Victoria Packing Company, Los Angeles, Calif. Renewed February 12, 1944.

179,567. **"BEECH-NUT" AND DRAWING.** ICE CREAM. Registered February 12, 1924. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y., a corporation of New York. Renewed February 12, 1944.

179,571. **MILADY.** FRUIT SALAD, CANNED FRUITS, CANNED VEGETABLES. Registered February 12, 1924. CALIFORNIA CO-OPERATIVE CANNERIES. Renewed February 12, 1944, to Tri-Valley Packing Association, San Francisco, Calif., assignee.

179,631. **McCORMICK-DEERING.** CERTAIN AGRICULTURAL MACHINERY AND INTERNAL COMBUSTION ENGINES. Registered February 12, 1924. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed February 12, 1944.

179,641. **"FEDERAL" AND DRAWING.** FRESH GRAPES, FRESH PEACHES, FRESH PLUMS, AND FRESH CITROUS FRUITS. Registered February 12, 1924. FEDERAL FRUIT DISTRIBUTORS, Fresno, Calif., a corporation of California. Renewed February 12, 1944.

179,663. **CHARM.** COMBS, BARRETTES, CROCHET NEEDLES, TAPE, BRAID, SHOE LACES, BELTING, ELASTIC, THIMBLES, HAIR WAVERS, SNAP FASTENERS, PINS, HAIRPINS, COLLAR BUTTONS, CUFF BUTTONS, AND CERTAIN OTHER PINS AND BUTTONS. Registered February 12, 1924. S. BLECHMAN & SONS INC., New York, N. Y., a corporation of New York. Renewed February 12, 1944.

179,678. **DOMORE.** OFFICE, HOUSEHOLD, AND FACTORY CHAIRS. Registered February 12, 1924. WILLIAM S. FERRIS, doing business as Domore Chair Company. Renewed February 12, 1944, to Domore Chair Company, Inc., Elkhart, Ind., a corporation of Indiana, assignee.

179,679. **KILLARNEY.** DRESS, NEGLIGEE, AND WORK SHIRTS, BOYS' BLOUSES, AND PYJAMAS. Registered February 12, 1924. PHILLIPS-JONES CORPORATION, New York, N. Y., a corporation of New York. Renewed February 12, 1944.

179,702. **"WHITE STRIPE" AND DRAWING.** CITROUS FRUITS IN THEIR NATURAL STATE. Registered February 12, 1924. RANCHO SESPE, Fillmore, Calif., a corporation of California. Renewed February 12, 1944.

179,821. **PURITY MAID.** FRESH MILK AND CREAM, BUTTER, CHEESE, AND ICE CREAM. Registered February 19, 1924. PURITY MAID PRODUCTS COMPANY, New Albany, Ind., a corporation of Indiana. Renewed February 19, 1944.

179,895. **"AROLAC" AND DRAWING.** LACQUERS, LACQUER ENAMELS, THINNERS, LACQUER SOLVENTS, OIL COLORS, AND PREPARED SHELLACS. Registered February 19, 1924. ARIZONA LACQUER MFG. CO. INC., Irvington, N. J., a corporation of New York. Renewed February 19, 1944.

179,976. **MIDGET.** CHECK-ENDORSING MACHINES. Registered February 19, 1924. THE INTERNATIONAL POSTAL SUPPLY COMPANY OF NEW YORK, New York and Brooklyn, N. Y. Renewed February 19, 1944, to The International Postal Supply Company of New York, Brooklyn, N. Y., a corporation of New York.

179,977. **JUNIOR.** CHECK-ENDORSING MACHINES. Registered February 19, 1924. THE INTERNATIONAL POSTAL SUPPLY COMPANY OF NEW YORK, New York and Brooklyn, N. Y. Renewed February 19, 1944, to The International Postal Supply Company of New York, Brooklyn, N. Y., a corporation of New York.

REISSUES

SEPTEMBER 28, 1943

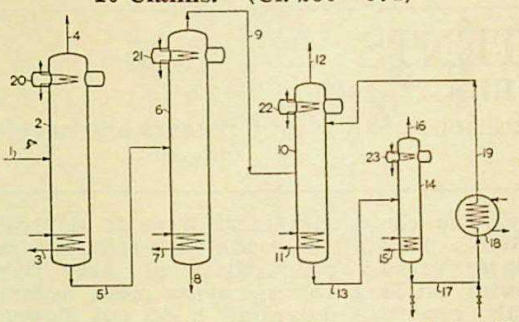
22,379

RECOVERY OF PURE AROMATICS

Clarence L. Dunn, Berkeley, and Robert B. McConaughy, El Cerrito, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Original No. 2,288,126, dated June 30, 1942, Serial No. 348,046, July 27, 1940. Application for reissue October 19, 1942, Serial No. 462,479½

10 Claims. (Cl. 260—674)



1. In a process for separating a substantially pure aromatic fraction consisting essentially of aromatics of identical molecular weight from a hydrocarbon mixture containing non-aromatic hydrocarbons and having a relatively wide boiling range above and below the boiling temperatures of said aromatics, the steps of fractionally distilling said mixture to produce a concentrate containing not less than about 5% of said aromatic fraction, said concentrate containing an amount of components boiling higher than about 10° C. above the upper boiling temperature limit of said aromatic fraction, which amount is not greater than the content of said aromatic fraction in said concentrate, and a content of components boiling higher than about 15° C. above said upper boiling temperature limit which content is not greater than the larger of the following; 5% of said content of said aromatic fraction and ½% of the total concentrate, contacting said concentrate in the vapor phase with a liquid solvent selectively dissolving aromatic hydrocarbons to produce a residual vapor and a fat solvent containing absorbed vapors consisting essentially of aromatic hydrocarbons, separating said fat solvent from said residual vapor, and fractionally distilling the separated fat solvent to recover said absorbed aromatics, said solvent boiling at a temperature substantially above the said highest boiling temperature of said pure aromatic fraction.

22,380

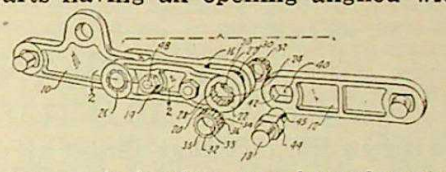
LINK CHAIN

Hubert Hollmann, Findlay, and William G. Van Voorhis, Columbus, Ohio, assignors to The Buckeye Traction Ditcher Company, Findlay, Ohio, a corporation of Ohio

Original No. 2,230,457, dated February 4, 1941, Serial No. 263,087, March 20, 1939. Application for reissue February 1, 1943, Serial No. 475,464

2 Claims. (Cl. 74—254)

2. A chain comprising a link having laterally spaced separable end parts formed with aligned apertures, each aperture having an annular series of alternating ribs and grooves communicating with a counterbore of enlarged diameter, an internal shoulder at the junction of each aperture and its respective counterbore, a bushing having corresponding ribs and grooves fitting each aperture, radially extending lug means at the inner ends of each of said bushings and engageable with the shoulder formed by said counterbore to limit outward movement of said bushing, a second link extending between said end parts having an opening aligned with said



apertures, a pin having an enlarged central portion fitting said opening and non-rotatably received therein, said enlarged central portion having sides against which the inner ends of said bushings bear to prevent inward movement thereof and to constitute a bearing surface therefor, whereby said bushings are retained in the counterbored portions of the first said link and are prevented from shifting laterally.

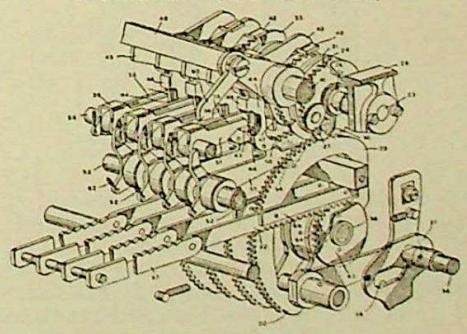
22,381

ACCOUNTING MACHINE

Harold P. Mixer, Rockville Centre, N. Y., assignor to Remington Rand, Inc., Buffalo, N. Y., a corporation of Delaware

Original No. 2,311,454, dated February 16, 1943, Serial No. 335,214, May 15, 1940, which is a division of Serial No. 76,492, April 25, 1936, now Patent No. 2,214,029, dated September 10, 1940. Application for reissue July 3, 1943, Serial No. 493,485

3 Claims. (Cl. 235—144)



1. In normalizing control mechanism for an accumulator of the crawl carry type, which accumulator comprises in each denomination an accumulator gear, an accumulator wheel and differential gearing, the combination of locks for the sectors which return the wheels to zero, stops for the accumulator wheels, control members one cooperating with each accumulator wheel, latches to maintain said stops and control members out of engaging position and said locks in locking condition in all orders except the lowest, lugs on said accumulator wheels to restrain said control members and stops each when released from its latch and when the associate accumulator wheel stands approximately at nine, and means controlled by each said control member when freed from its latch and from its said lug to trip the latch for the next higher order.

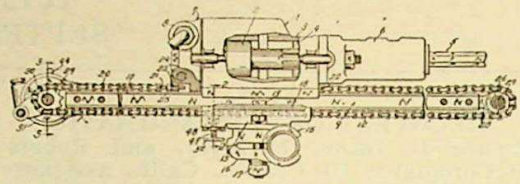
22,382
ROCK DRILL

Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Original No. 2,309,077, dated January 19, 1943, Serial No. 392,317, May 7, 1941. Application for reissue August 4, 1943, Serial No. 497,405

17 Claims. (Cl. 255—45)

1. In combination, a support, a guide mounted on said support for adjustment in a longitudinal direction relative thereto, a member to be fed guided on said guide for feeding movement longitudinally therealong, and motor operated mechanism mounted on said guide for longitudinal movement therewith and including selectively operable means operable at will alternatively for adjusting said guide relative to said support and



for feeding said member to be fed along said guide, said means including a motor rotated element common to and turning during both member-feed and guide-adjustment.

PLANT PATENTS

GRANTED SEPTEMBER 28, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

601
ROSE PLANT

Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana

Application March 29, 1943, Serial No. 481,003

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the polyantha class, characterized as to novelty by its habit of vigorous growth with relatively large foliage; greater productivity of large flowers growing on long stems, having more numerous petals, especially adapting it to cut flower as well as garden decoration purposes, and novel coloring of the flowers, substantially as shown and described.

PATENTS

GRANTED SEPTEMBER 28, 1943

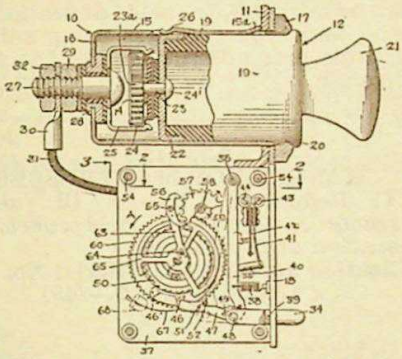
2,330,187

CIGAR LIGHTER

Gustave F. Bahr, Bridgeport, Conn., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut

Original application April 8, 1937, Serial No. 135,691. Divided and this application February 23, 1940, Serial No. 320,304

12 Claims. (Cl. 200—33)



6. A control means for an energizing circuit comprising a pair of switches in series in said circuit, a movable member engageable with said switches and manually operable to close one switch and open the other; means for imparting motion to the movable member; and means for successively closing the open switch and opening the closed switch at prevised points in the latter movement of said member.

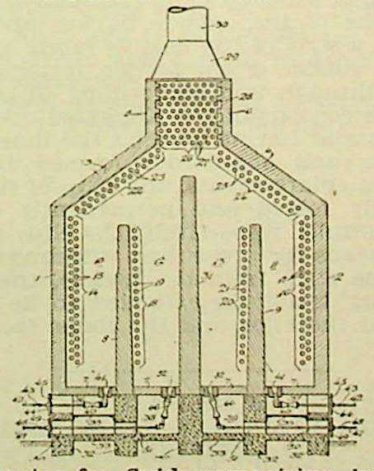
2,330,188

HEATER OF FLUIDS

Marion W. Barnes, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application January 26, 1942, Serial No. 428,240

4 Claims. (Cl. 122—356)



1. A heater for fluids comprising, in combination, substantially vertical refractory side walls, a substantially vertical refractory interior wall spaced substantially midway between said side walls, another substantially vertical refractory interior wall spaced from and disposed between each of said side walls and the first named interior wall, said wall arrangement providing a combustion and radiant heating zone between each adjacent pair of said walls, a substantially vertical bank of tubular fluid conduits disposed in each of said zones adjacent the surface of one of said refractory walls thereof, and means for independently firing each of said zones comprising burners disposed adjacent one end of that refractory wall thereof opposite said tube bank disposed therein, for projecting flames and hot combustion gases into said zone and over the surface of said opposite wall in a substantially vertical direction, a combustion gas discharge passageway and inclined refractory walls extending therefrom to said side walls, and heating tubes adjacent said inclined walls, the first-mentioned interior wall extending beyond the extremities of the other interior walls into the space between said inclined walls and being fired on its opposite sides whereby to transmit radiant heat directly to the tubes adjacent the inclined walls.

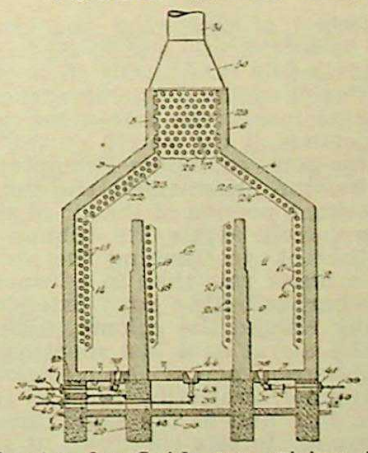
2,330,189

HEATER FOR FLUIDS

Marion W. Barnes, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application January 28, 1942, Serial No. 428,455

2 Claims. (Cl. 122—356)



1. A heater for fluids comprising, in combination, substantially vertical refractory side walls, substantially vertical refractory interior walls spaced from each other to provide a combustion and radiant heating zone therebetween and spaced from the side walls to provide a separate combustion and radiant heating zone between each side wall and the adjacent interior wall, a substantially vertical bank of tubular fluid conduits disposed adjacent each of the interior walls in the first mentioned combustion zone, firing means for said first mentioned combustion zone comprising burners disposed adjacent one end thereof for directing flames and hot combustion gases vertically therethrough between said interior walls in direct heat transmitting relation to said fluid conduits therein, a substantially vertical bank of tubular fluid conduits disposed in each of the second mentioned combustion zones adjacent one of said refractory walls thereof and independent firing means for each of said second mentioned combustion zones comprising burners disposed adjacent one end of that refractory wall thereof opposite the tube bank disposed therein

for directing flames and hot combustion gases vertically therethrough over the surface of said wall whereby to transmit radiant heat from said wall and from the flames and hot combustion gases passing thereover to the fluid conduits therein, a combustion gas discharge passageway in vertical alignment with the heating zone between said interior walls, inclined refractory walls extending from said side walls to said passageway, heating tubes disposed adjacent said inclined walls, and means for directing combustion gases from said heating zones in heat transfer relation to the tubes adjacent said inclined walls and thence to said passageway.

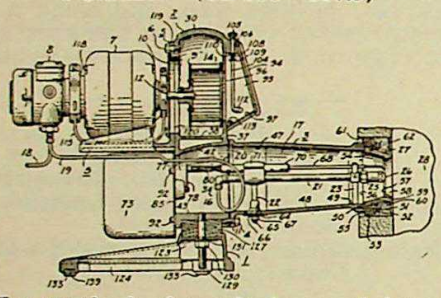
2,330,190

COMBUSTION METHOD FOR OIL BURNERS

Reginald W. Beckett, Elyria, Ohio

Original application February 4, 1938, Serial No. 188,731. Divided and this application February 5, 1940, Serial No. 317,246

4 Claims. (Cl. 158—117.5)



1. The method of producing and burning a combustible mixture of air and liquid fuel which comprises advancing air spirally in a generally circular sectioned column of greater length than diameter, accelerating the advancing air over the major portion of the length of the column to a deflecting zone extending circumferentially around the column intermediate the ends of the latter, deflecting a portion of the air at said zone to flow transversely across the column toward the center thereof, accelerating the air beyond the zone at a faster rate than in advance of the zone to another deflecting zone extending circumferentially around the column, deflecting a portion of the air at said last mentioned zone to flow transversely across the column toward the center thereof, projecting the fuel in finely divided form into and in the same direction as the advancing air to mix therewith at said last mentioned zone, and igniting the mixture.

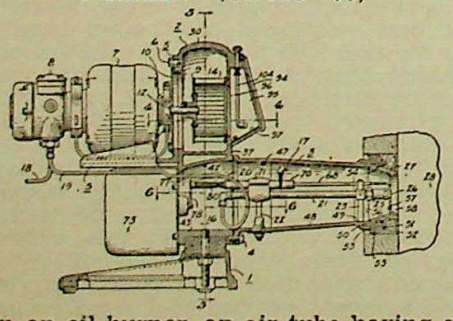
2,330,191

AIR TUBE AND BURNER HEAD FOR OIL BURNERS AND THE LIKE

Reginald W. Beckett, Elyria, Ohio

Application March 22, 1940, Serial No. 325,370

9 Claims. (Cl. 158—76)



1. In an oil burner, an air tube having an air passage therethrough with a circular outlet opening at one end, a tubular head secured on said end of the air tube over the opening, the head having a circular inlet opening of slightly less diameter than the tube opening to provide a circumferential shoulder at the tube outlet, a fuel atomizing nozzle extending into the head through said inlet opening and means for supplying oil thereto, and means for forcing air through the tube and against the shoulder to be deflected thereby across the tube opening prior to moving across the nozzle orifice to receive and entrain the oil from the latter, said head having a passage extending as a continuation of the tube passage and generally of smaller cross sectional area to effect an increase in velocity of the air subsequent to said deflection thereof, said head and tube passages being substantially free of transverse obstructions to the flow of air therethrough.

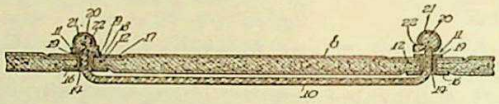
2,330,192

HANDLE FOR MATTRESSES

Peter C. Bednarek, Chicago, Ill., assignor to Ostermoor & Company, Bridgeport, Conn., a corporation of New York

Application June 21, 1941, Serial No. 399,079

2 Claims. (Cl. 5—345)



1. The combination with the box-border of a mattress of a pair of eyelets, each eyelet comprising a transverse flange extending through an opening in the border and having vertically elongated straight sides and rounded upper and lower ends forming a vertically elongated straight-sided opening through the border and an out-turned flange fitting against the outer face of the border, plates fitting around the outside of the transverse flange, each plate having an opening conforming to one of the transverse flanges and fitting against the inner face of the border, an out-turned integral flange on the inner end of each transverse flange fitting against the inner face of one of the plates and clamping the border between one of the outside flanges and one of the plates, a strip of flat flexible fabric extending across the outside of the border, forming a grip, extended through and conforming in cross-section to the contour of the elongated openings in the eyelets and having ends on the inner side of the eyelets and box-border formed into rolls which form enlargements, and clips of flat metal cylindrically folded and permanently clenched around the rolls, respectively, the clips and rolls forming means for preventing withdrawal of the ends of the strip from the eyelets, the flexible strip having terminals extended to lie between one side of the clips and the inner face of the eyelets.

2,330,193

METHOD OF MAKING STAINED GLASS ARTICLES

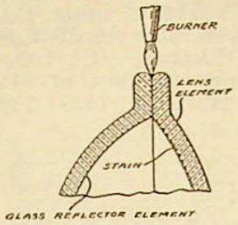
Henry H. Blau, Elmira, N. Y., assignor to Corning Glass Works, Corning N. Y., a corporation of New York

Application February 7, 1941, Serial No. 377,917

2 Claims. (Cl. 49—79)

1. In the method of making a glass electric lamp by staining a lens element and thermally sealing its periphery with the periphery of a glass reflector element, the step which com-

prises staining the lens element at a temperature about 100° C. higher than the temperature which



it attains adjacent but not at its periphery during sealing.

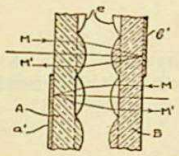
2,330,194

REFLECTING OPTICAL SYSTEM

Henry H. Blau, Elmira, N. Y., assignor to Corning Glass Works, Corning N. Y., a corporation of New York

Application June 10, 1941, Serial No. 397,498

6 Claims. (Cl. 88—82)



1. In a reflecting structure, the combination with two discs of transparent material, said discs being spaced apart from each other, each disc having on its inner face a series of bosses forming converging lenses, the lenses on the one disc being opposite the lenses on the other disc, the outer faces of the discs intersecting the principal axes of the systems formed by the several pairs of lenses at approximately the principal focal points of such systems and each disc being provided with a reflective coating on that portion of its outer face opposite an uncoated portion of the outer face of the other.

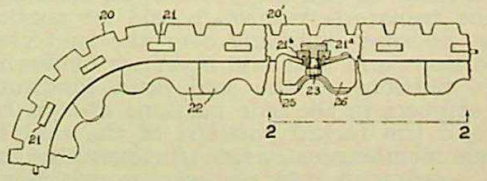
2,330,195

GUIDE FOR ENDLESS TRACKS

Edwin L. Allen and Harold B. Muster, Cleveland Heights, Ohio, assignors to Rudolph I. Schonitzer, Shaker Heights, Ohio

Application November 24, 1941, Serial No. 420,182

11 Claims. (Cl. 305—10)



1. A guide member for assembly on a crossbar of a flexible endless track movable in a path, said member being arranged for conjoint use with other coacting guide members of like nature, said member having a sheet metal plate adapted to overlap and slidingly engage a portion of a coacting member generally in a plane parallel to said path, and said plate being cupped to provide a recess generally parallel to said plane and the peripheral edges of said cup being then bent substantially parallel to said plane, whereby to reinforce said plate and to provide a large wearing area for said sliding engagement.

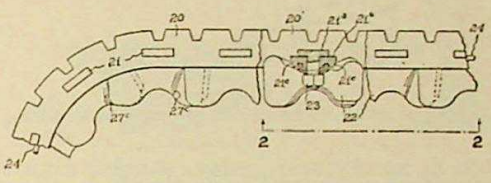
2,330,196

GUIDE FOR ENDLESS TRACKS

Edwin L. Allen and Harold B. Muster, Cleveland Heights, Ohio, assignors to Rudolph I. Schonitzer, Shaker Heights, Ohio

Application December 6, 1941, Serial No. 421,892

8 Claims. (Cl. 305—10)



1. A guide member for assembly on a crossbar of a flexible endless track movable in a path, said member being arranged for conjoint use with other coacting guide members of like nature, said member comprising two plates, each generally of H-form and having side portions bent up from a transverse portion into planes generally parallel to said path, one of said plates having side portions and a transverse portion generally parallel to and engaging similar parts of the other of said plates, and two separate side plate members, one secured to each of said side portions of one of said plates, said side plate members being adapted to overlap and engage similar portions of an adjacent guide member on the endless track.

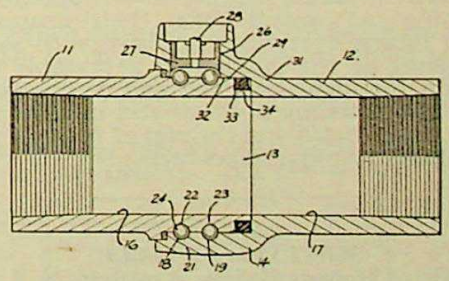
2,330,197

FLEXIBLE PIPE JOINT

Frank M. Allen, near Azusa, and Clyde B. Taylor, Anaheim, Calif., assignors to The All-Flex Corporation, Los Angeles, Calif., a corporation of California

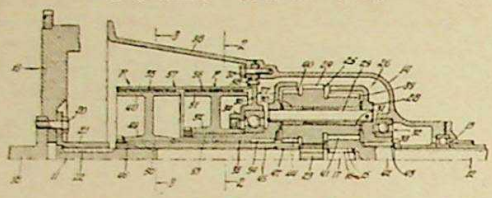
Application August 31, 1939, Serial No. 292,860

11 Claims. (Cl. 285—97.3)



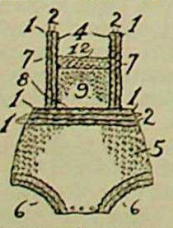
1. In a flexible pipe joint for joining a pair of coaxially disposed pipe sections journalled for rotary motion and against axial movement with respect to each other and including intersecting wall sections extending in cooperative relation to each other to define an annular recess between said pipe sections, and packing means disposed within said recess, said packing means comprising an annulus of deformable material and an annular backer therefor of resilient material interposed between said deformable annulus and the interstice between said wall sections, said deformable annulus making contact with one of said pipe sections in an area of contact so small that the product of said area and the coefficient of friction between said deformable material and said pipe section is less than the product of the coefficient of resistance to shear of said deformable material and the area of the minimum annular plane of shear through said deformable annulus.

2,330,198
REVERSING GEAR
Oscar H. Banker, Evanston, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application July 10, 1941, Serial No. 401,719
1 Claim. (Cl. 74—271)



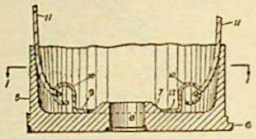
A reversing gear unit comprising; a planetary gear unit which includes a planetary gear carrier journalled for rotation about its principal axis and having front and back ends, forward, back and intermediate sets of planet gears in said carrier, the gears in each set being journalled for rotation in fixed coaxial relation with respective gears in the other of such sets, the gears in the intermediate set being relatively large in diameter, those in the back set being relatively small in diameter while those in the forward set are of intermediate diameter, a reaction sun gear meshed with the forward gears, a drive sun gear meshed with the intermediate gears, and a driven sun gear meshed with the back gears; drive and driven shafts disposed in end-to-end relation coaxially with the carrier and the sun gears and respectively fixed for rotation with the drive and driven sun gears; sleeve shafts rotatively fixed respectively with said reaction sun gear and with the planet carrier and projecting forwardly therefrom in concentric relation about the drive shaft; clutch drums respectively fixed non-rotatively with said sleeve shafts and juxtaposed axially thereof; brake bands spirally wrapped in opposite directions respectively about the peripheries of said drums, one end of each of said bands being anchored and the opposite ends thereof being displaceable oppositely for tightening said bands upon their drums; and control means operably associated with said opposite ends of the bands and actuatable in one direction for displacing the end of one band in the band-tightening position and in the opposite direction for displacing the end of the other band in the band-tightening position.

2,330,199
KNITTED ARTICLE
Olive Holmes Basch, Westfield, N. J.
Application May 22, 1939, Serial No. 275,056
5 Claims. (Cl. 66—172)



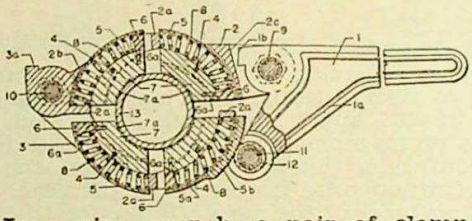
1. A knitted garment comprising a body portion consisting essentially of knitted textile yarn having along at least one edge thereof an elastic textile fabric-covered rubber thread knitted thereon with a bound off stitch as an integral part of the knitted structure, there being at least one course of knitted elastic thread parallel to said knitted elastic edge and having at least one course of knitted textile yarn between successive courses of knitted elastic thread.

2,330,200
CARTRIDGE CASE
Ernest C. Bomar, United States Army, Philadelphia, Pa.
Application November 29, 1940, Serial No. 367,769
3 Claims. (Cl. 102—43)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A cartridge case having a base with a central projection on its inner wall, a plate fixed to the inner wall of the base and having an aperture for the central projection, said plate provided with forwardly projecting loops, sufficiently rigid to serve as anchors for propellent charge-holding cords, said loops being spaced from the side walls of the cartridge and opening rearwardly of the cartridge.

2,330,201
WRENCH
Alexander Boynton, San Antonio, Tex.
Application April 8, 1939, Serial No. 266,759
3 Claims. (Cl. 81—179)



3. In a pipe wrench, a pair of clamp jaws hinged at one end thereof, said jaws being forked at portions thereof to provide openings to receive spring housings therein, and curved in contour to permit surrounding a pipe, a bell crank lever pivoted to one of said clamp jaws at the other end of said one clamp jaw, said bell crank lever having a handle member and an arm member extending outwardly from said pivot, a roller carried at the outer end of the arm member adapted to engage the other of said clamp jaws on movement of said handle member in a pipe engaging direction, a plurality of gripper dogs having teeth adapted to engage a pipe surface, a central rib portion and a stop member on each of said gripper dogs, and lateral cam surfaces on each side of said rib portion, an opening extending transversely through said rib portion, a spring housing extending over the said central rib portions and into said openings between the forked portions of the said jaws, longitudinal slot members in the side portions of said housings and the forked portions of the said jaws, holding members extending through the transverse opening in said rib portion and through the longitudinal slot members of the housing to hold the housing in place and to permit relative longitudinal movement between said gripper dogs and said clamp jaws together with said spring housings, a spring member mounted in each of said housings, a jaw stop member connected to each of said jaws so as to engage each spring member and to hold the same in compression between a dog stop member and a jaw stop member, cam surfaces on said jaw members disposed laterally thereon so to engage the corresponding lateral cam surfaces on the said gripper dogs in opposed relation so that by relative movement of the gripper dogs and the clamp jaws along

the said cam surfaces, the pressure of the dog teeth against the pipe surface is increased and by relative movement in the opposite direction the pressure is decreased and bumper stop members to limit the relative movement of the jaw members and the said handle member.

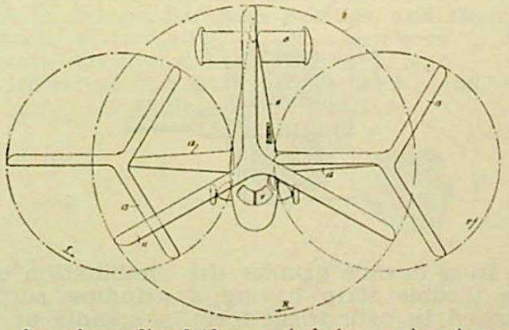
2,330,202
METHOD OF MAKING ELECTRODES
Joseph B. Brennan, Euclid, Ohio
No Drawing. Application December 7, 1939, Serial No. 308,045
9 Claims. (Cl. 117—105)

1. Method of making physically reticular and electrically conductive layers for electrolytic condenser electrodes which comprises spraying finely divided molten aluminum upon a base, and simultaneously directing a current of fluid to maintain the surface of the base upon which the metal is deposited at a temperature lower than the melting point of the metal so sprayed, to thereby produce a spray deposited layer which is conductive and porous throughout.

2,330,203
DYE INTERMEDIATE
Leslie G. S. Brooker and William Waldo Williams, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application August 21, 1940, Serial No. 353,500
9 Claims. (Cl. 260—304)

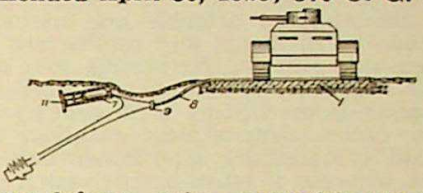
1. A process for preparing a benzothiazolium alkyl quaternary salt comprising hydrolyzing, in the presence of an acid, a 3-alkyl-2-dicarbalkoxymethylenebenzothiazoline.

2,330,204
MULTIROTOR AIRCRAFT
Harris S. Campbell, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application September 15, 1941, Serial No. 410,829
15 Claims. (Cl. 244—17)



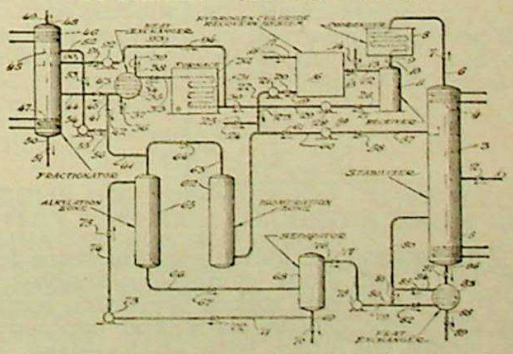
1. An aircraft of the sustaining rotor type including power means and three rotors adapted to be driven from said power means, one of said rotors being of relatively large diameter, with its axis disposed generally in the longitudinal plane of symmetry of the craft, and the other two of said rotors being of relatively small diameter and constituting a pair arranged generally symmetrically with respect to the longitudinal plane of symmetry, one offset to one side of said plane and the other offset to the other side, and power transmission means adapted to interconnect said power means and said rotors and providing for rotation of said relatively large rotor in one direction and for rotation of said pair of smaller rotors in the opposite direction.

2,330,205
ORDNANCE
Clyde B. Cox, Fort Ord, Calif.
Application November 27, 1940, Serial No. 367,407
1 Claim. (Cl. 89—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A zone defense system comprising in combination, a plurality of elastic pneumatic tubes arranged across a vehicle route, a plurality of projector tubes along said route and trained substantially in line with said pneumatic tubes, said projector tubes having electrical propellent-ignition means associated therewith, parallel electric circuits connecting said means, a firing switch for each pneumatic tube and operatively connected therewith, said switch comprising a casing formed at least in part of conducting material and including a dielectric section, a diaphragm of conducting material in contact with the conducting material of the casing, a metallic contact point for contact with said diaphragm and mounted on the dielectric section, means for adjusting said point relative to the diaphragm to control the responsiveness of the switch to different pneumatic pressures, a source of electrical current, a lead wire from said adjustable contact point to said source and one from the conducting portion of the diaphragm to to the propellent-ignition means, and a main switch remote from the projector tubes in said circuits, said switch arranged for closure at the will of the operator whereby vehicular movement over a pneumatic tube will fire its associated projector tube.

2,330,206
CONVERSION OF HYDROCARBONS
Charles G. Dryer and Ralph B. Thompson, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 30, 1941, Serial No. 404,604
14 Claims. (Cl. 260—683.4)



3. A process for the conversion of natural gasoline containing propane and normal butane which comprises fractionating said natural gasoline in the presence of conversion products of the process, produced as hereinafter set forth, to separate a fraction containing said propane and lighter constituents, a fraction containing four carbon atoms per molecule including said normal butane, and a fraction containing the higher boiling constituents, withdrawing said fraction containing the propane and lighter constituents,

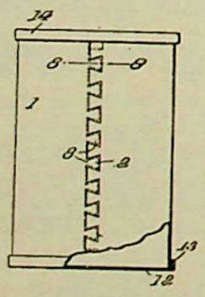
cooling the same to condense said propane, separating the condensed propane from the lighter constituents, withdrawing the latter from the process, subjecting said propane to thermal cracking conditions to effect substantial conversion thereof into ethylene, withdrawing the last mentioned conversion products containing said ethylene, unconverted propane and higher and lower boiling constituents and cooling the same, introducing said fraction containing four carbon atoms per molecule, including said normal butane, into an isomerization zone containing an aluminum chloride-containing catalyst, maintaining said isomerization zone under isomerizing conditions, whereby to effect isomerization of said normal butane to isobutane and whereby to include a portion of said aluminum chloride with the conversion products withdrawn from said isomerization zone, introducing the last mentioned conversion products including isobutane and said portion of aluminum chloride into an alkylation zone containing a granular packing material, introducing into said alkylation zone said conversion products containing said ethylene, maintaining said alkylation zone under temperature and pressure conditions whereby to effect alkylation of said isobutane by said ethylene in the presence of said portion of aluminum chloride, withdrawing the products from said alkylation zone and introducing the same into a separating zone wherein the hydrocarbons are separated from aluminum chloride-containing products, withdrawing the latter from the process, and fractionating said last mentioned hydrocarbons in the presence of said natural gasoline as previously set forth.

2,330,207

METHOD OF MAKING SHEET METAL CONTAINERS

Isaac W. England and John Haycock, New York, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application January 22, 1941, Serial No. 375,520
2 Claims. (Cl. 113—120)



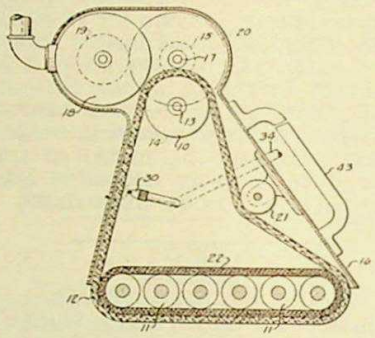
2. The method of making a side seam for a sheet metal can body comprising shaping the body so as to provide spaced projecting portions along one edge of the blank and opposed recesses along the other edge of the blank, said recesses conforming in shape to the projections, offsetting the metal at the side edges of each recess to form projecting lugs; curving the projections on the edge of the body blank transversely of the center line thereof so as to reduce the over-all area of the projections to facilitate the insertion of the same in the respective recesses on the other edge portion, placing the projections in the recesses on the supporting lugs therefor, bumping the side seam to straighten out the curvature of the projecting portions for bringing the adjacent parts of the projections and recesses into intimate contact and metal-bonding the side seam for hermetically uniting said contacting edge portions.

2,330,208

METHOD AND APPARATUS FOR BELT SURFACING

Horace B. Fay, Willoughby, Ohio, assignor to The Stratmore Company, Cleveland, Ohio, a corporation of Delaware

Application November 8, 1939, Serial No. 303,418
2 Claims. (Cl. 51—170)



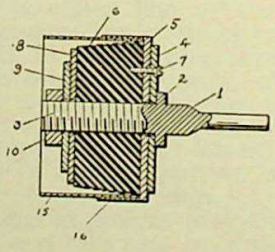
1. In a method of surfacing by means of a continuous belt passing over guides and comprising backing material having abrasive adhesively secured to the backing material, the backing material having a tendency to dry out and become brittle during use in the atmosphere, the step of directing a gaseous stream against the abrasive opposite side of said backing material, the moisture content of the stream being such that it prevents the backing material from becoming dry and brittle.

2,330,209

FLEXIBLE GRINDER OR SANDER

Joseph George Florack, Hackensack, N. J.

Application October 3, 1941, Serial No. 413,469
8 Claims. (Cl. 51—194)



1. In a flexible grinder the combination of a wide flexible strip having a grinding surface arranged in cylindrical form, a spindle at the center of said grinding surface said spindle being threaded at one end, a disc fixed on said spindle at an intermediate part thereof, a tapered rubber core carried on the spindle at the threaded end thereof with its big end placed at the disc and with its small end spaced apart from and inside of the grinding surface with an open space between them, a ring loosely surrounding the big end of the rubber core, the cylindrical flexible strip having one edge placed between the rubber core and the ring, means for expanding the rubber core to grip part of the grinding surface between the rubber core and the ring, the rest of the grinding surface being exposed the the side of the ring and means for rotating the assembly.

2,330,210

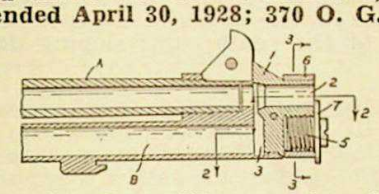
BLANK AMMUNITION FIRING ATTACHMENT FOR GAS OPERATED GUNS

John C. Garand, Springfield, Mass., assignor to the Government of the United States of America, as represented by the Secretary of War and his successors in office

Application November 22, 1938, Serial No. 241,823

5 Claims. (Cl. 42—3)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. In combination with a gun barrel having a gas cylinder and a gland having a passage aligned with the bore of the gun and affording communication with the gas cylinder, gas obstructing means rotatably mounted on the front of the gland on an axis offset from that of the passage and partially overlapping the passage, and detachable means securing said means to said gland.

2,330,211

FILTER TREATMENT

Clifford I. Haney, Drummondville, Quebec, Canada, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application March 23, 1940, Serial No. 325,657

6 Claims. (Cl. 210—62)

1. Process for improving the filtering properties of viscous solutions of organic derivatives of cellulose, which comprises adding a fibrous material to a viscous solution of an organic derivative of cellulose in an organic solvent, the amount of fibrous material added to the solution being not less than 0.01% nor more than 0.2%, based on the weight of the solution, and then filtering said solution.

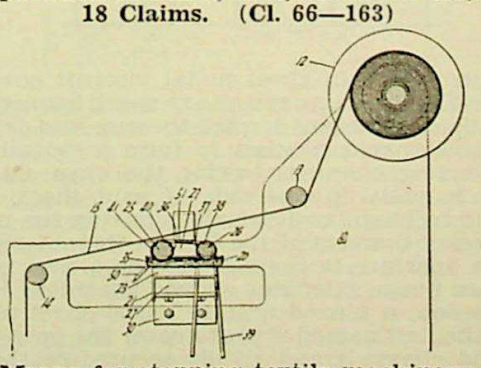
2,330,212

STOP MEANS FOR TEXTILE MACHINES

Clyde B. Hayes, Saratoga Springs, and Henry J. Czech, Gloversville, N. Y., assignors to Van Raalte Company, Inc., New York, N. Y.

Application March 4, 1942, Serial No. 433,302

18 Claims. (Cl. 66—163)



1. Means for stopping textile machinery upon thread failure, said means comprising a circuit having a pair of spaced electrodes disposed adjacent a normal thread path whereby displacement of a thread from said path brings it into contact with said electrodes, means for applying a conducting liquid to said thread between said electrodes to close said circuit, and means operable by closure of said circuit for interrupting machine operation.

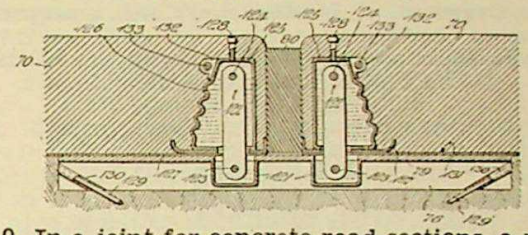
2,330,213

CONCRETE ROAD CONSTRUCTION

John N. Heltzel, Warren, Ohio

Application May 8, 1940, Serial No. 334,051

9 Claims. (Cl. 94—18)



9. In a joint for concrete road sections, a rigid member seated in the subgrade beneath and bridging the joint, said member extending beneath the sections and slidably supporting the same, movable link means connecting said sections to the member on opposite sides of the joint, each section having therein a chamber recess surrounding the link means, and a compressible member between said rigid member and each section.

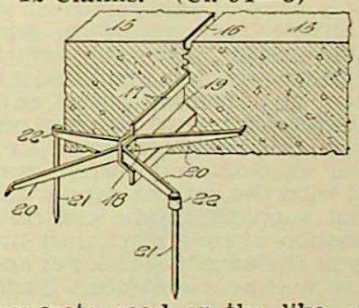
2,330,214

JOINT AND JOINT INSTALLING APPARATUS FOR CONCRETE ROADS AND THE LIKE

John N. Heltzel, Warren, Ohio

Original application January 9, 1940, Serial No. 313,128. Divided and this application November 3, 1942, Serial No. 464,372

12 Claims. (Cl. 94—8)



1. In a concrete road or the like, a division plate for embedding in the concrete to establish sections, shear plates in face contact with the division plate on opposite sides thereof, said shear plates having stress transmitting arms extending into the sections, and rigid connector means passed through all said plates and securing them together against relative movement, said connector means providing load transfer means between the sections.

2,330,215

METHOD OF PRODUCING THERAPEUTICALLY VALUABLE ALCOHOLS FROM GERMINAL GLAND HORMONES

Friedrich Hildebrandt, Berlin-Charlottenburg, Germany, assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application October 17, 1934, Serial No. 748,664. Renewed March 1, 1939. In Germany October 21, 1933

19 Claims. (Cl. 260—397.5)

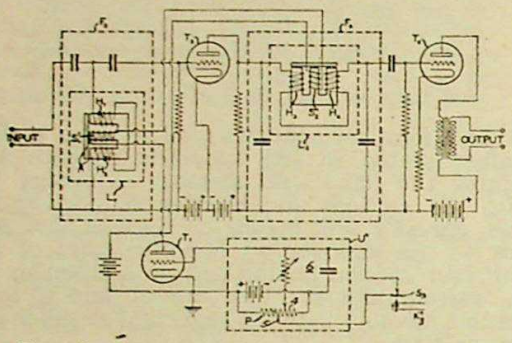
1. The method of producing compounds of improved physiological activity which includes the step of reacting a compound of the group consisting of keto-containing germinal gland hormones and keto-containing reaction products thereof having a cyclopentano phenanthrene structure with an organo-metallic compound of the Grignard type.

2,330,216

APPARATUS FOR SEISMIC PROSPECTING

Herbert Hoover, Jr., Sierra Madre, and Merrill Swan, Pasadena, Calif., assignors, by direct and mesne assignments, to Consolidated Engineering Corporation, Los Angeles, Calif., a corporation of California

Application January 30, 1939, Serial No. 253,488
4 Claims. (Cl. 177—352)



1. In seismic prospecting apparatus for reproducing and recording a train of reflected seismic waves in which there is a gradual shift in the spectrum of the reflected waves from high frequencies to low frequencies during the wave reception, having a receptor for converting the seismic wave train into a corresponding electrical wave train having the same frequency components, the combination of an electrical wave amplifier having an input and output and capable of passing a band of said electrical waves therethrough, a filter intermediate the input and output of the amplifier, a variable inductance serving as a filter element, said inductance being in the form of a reactor wound on a magnetic core, a control winding also wound on the core, a current supply device connected in series with the control winding, and current control means connected with the current supply device to vary the current supplied to the control winding as such a function of time as to shift the maximum sensitivity of the amplifier to lower and lower frequencies as a function of time during the amplification of the electrical waves.

2,330,217

MANUFACTURE OF THE PHENOL-ALDEHYDE TYPE OF RESINS

James V. Hunn, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application July 22, 1940, Serial No. 346,805
14 Claims. (Cl. 260—51)

1. The method of producing a resin which comprises reacting an alkyl phenol having at least 4 carbon atoms in the alkyl group and formaldehyde in water solution in the presence of a small amount of acid catalyst and of a small amount of surface active wetting agent at a temperature from 180° to 210° F.

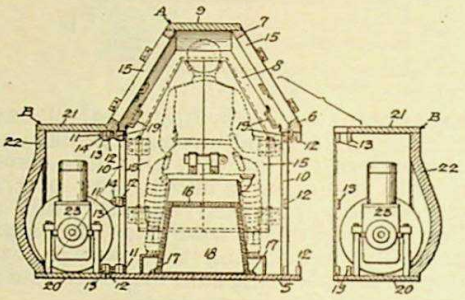
2,330,218

ARMORED VEHICLE BODY

Byron Q. Jones, United States Army, Fort Knox, Ky.

Application March 28, 1940, Serial No. 326,421
2 Claims. (Cl. 180—9.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An armored vehicle adapted to house one or more occupants, vehicle propulsion mechanism, and fuel therefor, in combination, a center unit, a hollow member extending centrally and longitudinally along the said center unit for containing the said fuel and for seating the said occupants in tandem, the sides of the said member being spaced from the sides of the said center unit to provide clearance for the legs of the occupants seated astraddle the said member and the top of the said member being spaced from the roof of the said center unit to provide a minimum of clearance for the bodies of the said occupants, the sides of the center unit sloping downward



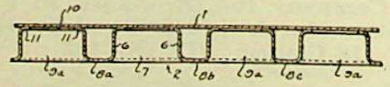
from its said roof to provide the minimum of clearance on both sides of the upper body portion of the occupants and to present sloped outside surfaces, the sides of the said center unit below its said sloped portion being provided with an opening, and a pair of side units detachably secured to the sides of the center unit to close its said openings and adapted to house the said propulsion mechanism, the top of the said side units meeting the said sloped portion of the sides of the center unit approximately midway the height of said center unit.

2,330,219

REINFORCED METAL COVERING FOR AIRCRAFT

Paul H. Kemmer, Fairfield, Ohio

Application August 13, 1940, Serial No. 352,404
1 Claim. (Cl. 244—133)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A stressed skin sheet metal aircraft covering material comprising a unitary sheet having rectangular depressions formed therein, said depressions being spaced apart to form a plurality of intersecting channels having the open sides of said channels on one side of said sheet, each of said rectangular depressions having the major portion of the area of the bottom thereof pierced by an aperture to thereby provide a narrow attaching flange extending around the sides of each depression, a second unitary metal sheet placed over the first named sheet to cover the open sides of said channels and rigidly secured to the attaching flanges of said first sheet, the side wall of one of said channels forming an edge of said first-named sheet and said second sheet having a bent over portion parallel with but spaced from the side wall of said one channel, and a metal spacing strip inserted between and united with said one channel side wall and the bent over portion of said second sheet to thereby form a rigid attaching flange for said braced sheet structure.

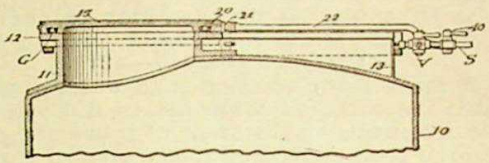
2,330,220

GATE CLOSURE

Maxwell F. Kemper, Los Angeles, Calif.

Application September 17, 1940, Serial No. 357,122

3 Claims. (Cl. 220—46)



1. A closure for a materials inlet opening leading to a receiving chamber subject to high internal pressure comprising, a cover plate mounted for movement to close the mouth of the opening, a gasket on said cover plate expansible in a direction axially of the mouth of the opening forming a seal between the cover plate and the mouth of the opening, means limiting movement of said cover plate axially of the mouth of the opening, and a passage communicating with said gasket permitting the application of a pressure on the gasket sufficient to cause expansion of the gasket to seal the joint between the cover plate and the mouth of the opening.

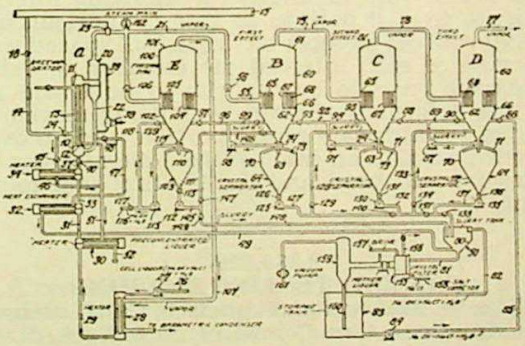
2,330,221

METHOD AND APPARATUS FOR CONCENTRATING LIQUIDS WHICH UPON CONCENTRATION DEPOSIT CRYSTALS AND LEAVE A RESIDUAL CONCENTRATED LIQUOR

Martin J. Kermer, Buffalo, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a corporation of New York

Application October 4, 1937, Serial No. 167,230

17 Claims. (Cl. 23—295)



14. In the process of separating a crystallizable substance from a solution of that substance in which a stream of the solution is passed progressively through a plurality of evaporator units of a multiple unit evaporator in which the solution is progressively concentrated and crystals formed, that improvement which comprises preconcentrating said solution in said stream in one stage of its transfer to said evaporator, heating the solution in the first unit of said evaporators through which said solution passes by heat exchange with the vapors generated from said solution while in a subsequent unit in the progression through which said solution passes, heating the solution in said subsequent unit, cooling the preconcentrated solution before it passes to said first unit, separating a slurry of said crystals from the solution in said units and washing the slurry of crystals so separated from said solution as a result of solution concentration in said units with said cooled and preconcentrated solution.

2,330,222

N-POLYHYDROXYALKYLATED AMINES OF THE BENZENE SERIES

Richard Kuhn and Rudolf Ströbele, Heidelberg, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application July 23, 1936, Serial No. 92,248. In Germany July 31, 1935

14 Claims. (Cl. 260—211)

8. N-glucoside-like condensation products of a sugar of 5 to 6 carbon atoms with an amino compound of the benzene series, which condensation products contain in the ortho-position to the glucoside-like substituted amino group a substituent selected from the group consisting of nitro and amino groups and the O-acyl derivatives of said condensation products.

2,330,223

AMINOTHIAZOLE FROM CHLOROACETAL

Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 29, 1940, Serial No. 363,299

10 Claims. (Cl. 260—302)

1. The method of producing a 2-aminothiazole which comprises reacting thiourea with a haloacetal in the presence of water and a lower aliphatic alcohol.

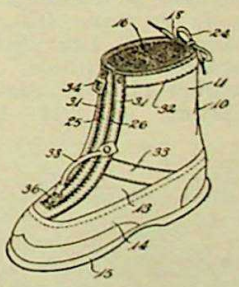
2,330,224

QUICKLY REMOVABLE BOOT

Leslie H. L'Hollier, Waltham, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application May 23, 1942, Serial No. 444,171

5 Claims. (Cl. 36—50)



1. A quickly removable article of footwear comprising a sole and heel portion, an upper portion, and at least two vents extending from near the sole portion to the top of the upper portion, the first of said vents having a slide fastener equipped with slider means adapted to close the slide fastener when the slider means is pulled upwardly, and the second of said vents having a fully separable slide fastener equipped with slider means adapted to close the slide fastener when the slider means is pulled downwardly and to completely open the slide fastener when pulled upwardly.

2,330,225

PHONOVISION SYSTEM

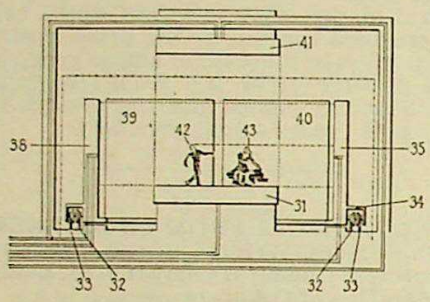
Paul W. Lang, Concord, N. H.

Application September 23, 1940, Serial No. 357,999

7 Claims. (Cl 178—6.5)

7. In a system for electrically reproducing the movements of objects, a stage for the performance which is to be electrically reproduced, an annular support disposed concentrically about said stage, circular rails arranged adjacent said

annular support, sets of wheels carried by said annular support and engageable with said rails for guiding said annular support in a rotary path around said stage, sets of vertically disposed walls carried by said annular support and extending in planes parallel with each other and substantially tangential to the path of movement thereof around said stage, banks of photoelectric cells arranged in said vertically disposed walls, certain of said vertically disposed walls including in addition to the photoelectric cells therein, a plu-



rality of light sources directed toward the photoelectric cells in the extreme opposite walls, means for shielding the photoelectric cells in said second mentioned walls from the direct rays of the light sources therein and confining the activation of said photoelectric cells to reflected light from objects constituting the performance on said stage, and means for revolving said annular support for effecting a scanning operation of the objects constituting the performance on said stage by the banks of photoelectric cells in said vertically disposed walls.

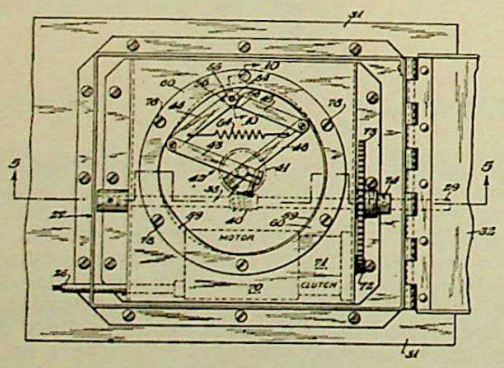
2,330,226

QUADRANTAL ERROR CORRECTOR SYSTEM

William P. Lear, Dayton, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois

Application October 17, 1940, Serial No. 361,544

9 Claims. (Cl. 250—11)



1. A quadrantal error corrector for an indicator comprising: a plurality of corrector cams with individual pre-shaped cam surfaces; means mounting said cams one next to another; a cam follower coupled between the indicator and said cams, a member adjustably mounted on said cam follower, said member having a plurality of projections spaced in correspondence with the positions of said cams; and means for holding said member in its adjusted positions on said cam follower for selectively operating said projections against a corresponding cam surface, whereby selective quadrantal error compensation is effected on said indicator by the corrector.

2,330,227

PARASITICIDAL COMPOSITION AND METHOD OF PREPARATION

George E. Lynn, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 29, 1941, Serial No. 395,838

6 Claims. (Cl. 167—42)

1. A method for bonding solid water-repellent organic parasiticidal toxicants to finely-divided carriers comprising the steps of preparing a dispersion of the carrier and finely-divided toxicant in a dilute oil-in-water emulsion, and thereafter breaking the emulsion.

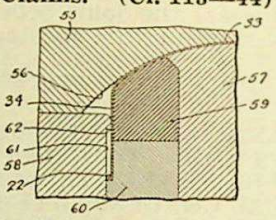
2,330,228

DIE FOR DRAWING SHEET METAL ARTICLES

George Albert Lyon, Allenhurst, N. J.

Application September 16, 1940, Serial No. 356,960, which is a division of application Serial No. 326,037, March 26, 1940. Divided and this application June 16, 1941, Serial No. 398,255

2 Claims. (Cl. 113—44)



1. A die set for bulging out a portion of a cylindrical wall of a sheet metal article having a round beaded rim forming one end of said wall and a crown portion merging into the other end, said die set comprising an internal die member constructed and arranged for applying internal pressure to said portion of said cylindrical wall, an external die member having a wall spaced from the wall of said internal die member to define a passage for said beaded rim to hold said rim against deformation while permitting movement thereof towards said crown portion, and an overhanging portion on said external die member for engaging said bead and for limiting said movement.

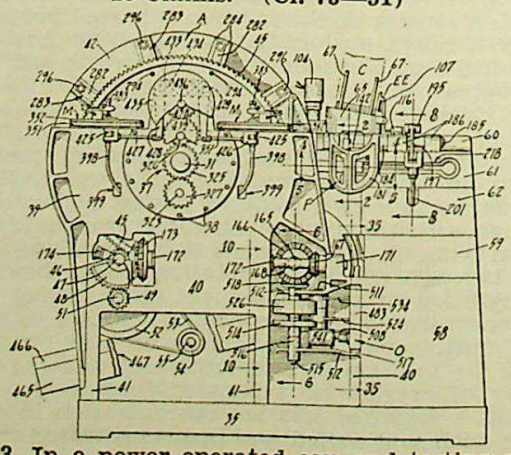
2,330,229

CAN END TESTING MACHINE

William W. Maher, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application October 15, 1941, Serial No. 415,129

15 Claims. (Cl. 73—51)



13. In a power operated can end testing ma-

chine, the combination of a plurality of tester wheels, tester heads carried by said wheels for receiving can ends to be tested, devices for feeding can ends in opposite directions into said tester heads, testing instrumentalities for testing the can end while it is in a said head, a discharge unit for removing the tested can ends from the machine, said discharge unit having different exits for the good and the leaky can ends, and a diaphragm unit connected with said tester heads for selecting the discharge exit for the can ends in accordance with the test.

2,330,230

DIELECTRIC LIQUID

Russell M. Mantell, New Bedford, Mass., assignor to Aerovox Corporation, New Bedford, Mass., a corporation of New York

No Drawing. Application October 28, 1940, Serial No. 363,156

7 Claims. (Cl. 252—64)

1. A di-electric suitable for heavy duty condensers comprising a non-inflammable liquid having high insulation resistance, a di-electric constant in excess of 4.0, having a power factor below 2 per cent under the most adverse conditions of operation, having minor capacity change throughout the widest ranges of temperature variation incurred in various localities, said material consisting essentially of the product resulting from the treatment of dibromoethylbenzene of commerce with metallic sodium within controlled temperature range, washing, filtration and drying.

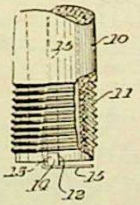
2,330,231

RENEWABLE ELECTRICAL FUSE

Harry W. Mervis, Pittsburgh, Pa., assignor to Capitol Renewable Fuse Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application December 13, 1941, Serial No. 422,816

2 Claims. (Cl. 200—131)



2. A renewable cartridge type fuse which consists of a tube of insulating material provided at its ends with threads, a flat T-shaped bridge member inserted in the bore at each end of the insulating tube, the stem of the T-shaped bridge members having straight sides and being sufficiently wide to span the bore of the insulating tube and frictionally engage the diametrical interior wall surfaces to hold the bridge members against movement relative to the tube, outwardly extending lugs forming the head of the T being wider than the bore and engaging the ends of the insulating tubes to limit the insertion of the bridge members into the insulating tube and to retain the ridges of the bridge members beyond the threaded ends, a fusible link of greater overall length than that of the insulating tube and the projecting bridge members extending through the tube and having its protruding extremities bent over the ridges of the bridge members, and interiorly threaded metal screw caps engaging the threads at the ends of the insulating tube to clamp the extremities of the fusible link between themselves and the bridge members for conducting current through the fusible link and for enclosing the same.

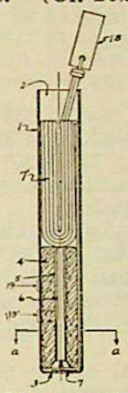
2,330,232

PRIMER ASSEMBLY

Harry L. Moat, Wilmington, Del., and Paul D. Troxler, Mahopac, N. Y., assignors to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

Application November 2, 1939, Serial No. 302,478

9 Claims. (Cl. 102—28)



8. A primer assembly adapted to be associated with an explosive charge comprising a tubular member adapted to receive and retain in one end thereof an explosive cartridge, a non-explosive collapse-resistant plug disposed in the opposite end of said tubular member and adapted to serve as an abutment for the explosive cartridge to be received in the tubular member, said plug having a longitudinal opening therein, an electric explosion initiator positioned in said opening and having its lead wire extending substantially wholly within said tubular member from a point adjacent the plugged terminus of the tubular member into the portion of said tubular member intended to receive said high explosive cartridge, said lead wire being bundled into the charge-receptive portion of said tubular member, and a grip on said bundle of wire so placed that it may be seized to pull the bundle of wire out of the tubular member.

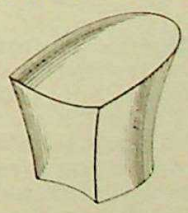
2,330,233

MOLDED ARTICLE AND METHOD OF MAKING THE SAME

Thomas C. Morris, Belmont, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

Application December 9, 1939, Serial No. 308,503

15 Claims. (Cl. 18—55)



2. The method of making a molded article adapted to receive a lacquer which comprises intimately mixing fibrous material with thermosetting resin, forming from said mixture without curing the resin an intermediate article having substantially the relative proportions of the finished article, coating the resultant intermediate article with thermosetting resin and a resinous substance which will act to increase the bonding power of the lacquer, and pressing the intermediate article under conditions of time, temperature and pressure such that the thermosetting resin in the body of the article and in the coating is cured and the article will retain its finished shape.

8. A molded heel which can readily be nailed in place in a shoe and is capable, as molded, of firmly holding a coat of lacquer, said heel comprising essentially 10 to 20 parts by weight of cured phenol-aldehyde resin and 90 to 80 parts by weight of finely divided fibrous material and having on its surface phenol-aldehyde resin and a vinyl resin which is compatible with the phenol-aldehyde resin and is at least softened by the solvent of the lacquer.

2,330,234

INSECTICIDE

Clarence L. Moyle, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application May 1, 1942, Serial No. 441,378

7 Claims. (Cl. 167—24)

1. An insecticidal composition comprising di-(mono-chloro-phenoxy)-methane as an active toxic ingredient.

7. An insecticidal spray comprising as active toxicants pyrethrin and di-(4-chloro-phenoxy)-methane.

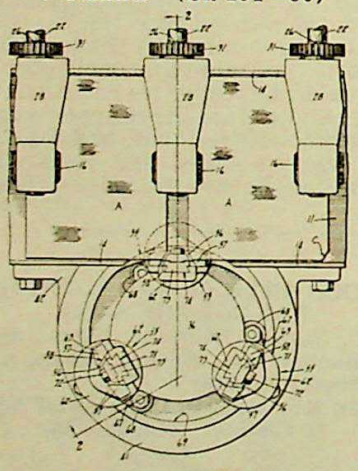
2,330,235

NOTCHING MECHANISM

John F. Peters, Leonia, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 6, 1941, Serial No. 421,991

8 Claims. (Cl. 164—50)



1. A sheet notching mechanism, comprising in combination, means for continuously advancing sheets in spaced processional order along a predetermined path of travel, a continuously rotating member disposed in tangential relation to and in the plane of the advancing sheets, and a notching instrumentality carried by said rotating member and engageable with a sheet as the latter moves adjacent said notching instrumentality for cutting a notch in said sheet.

2,330,236

DEVICE FOR MEASURING GAS LEAKAGE

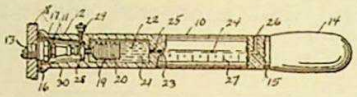
Melville F. Peters, Beltsville, and John P. Boston, Garrett Park, Md.

Application July 8, 1942, Serial No. 450,200

9 Claims. (Cl. 73—51)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An apparatus for determining the rate of gas leakage through a spark plug when it is installed in a cylinder of an operating internal combustion engine, comprising in combination a means for enclosing at least a portion of said spark plug protruding exteriorly of said cylinder within a gas-tight enclosure and means for detecting changes in the gas pressure within said enclosure, said enclosing means including means



for applying an ignition potential to the electrode of said spark plug without permitting gas leakage between said enclosure and the atmosphere, whereby the gas leakage rate may be determined during the normal operation of said spark plug by observing the rate of change indicated by said gas pressure detecting means.

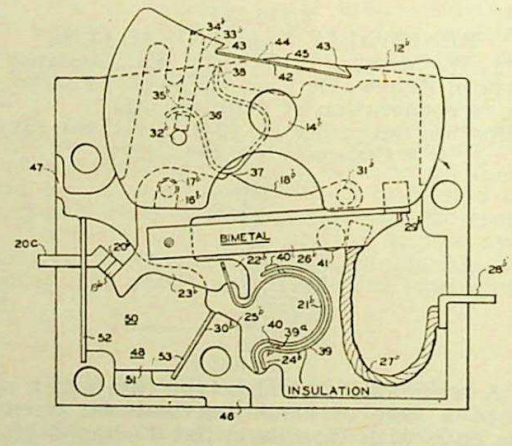
2,330,237

CIRCUIT BREAKER

Elwood T. Platz, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia

Substituted for abandoned applications Serial No. 232,806, October 1, 1938, and Serial No. 302,783, November 3, 1939. This application January 27, 1941, Serial No. 376,036

40 Claims. (Cl. 200—116)



20. In a circuit breaker having a stationary member, an arm, an actuator pivotally mounted at one point and pivotally connected to the arm at another and different point, means releasably latching the arm to the actuator at a third point, and a biasing spring for the arm engaging it at a point between the two first named points for snapping it to rest on manual movement thereof, when the latch holds, and for moving it from the stationary member, free of the actuator, on latch release, said spring providing all of the biasing forces for the movements of the arm, the spring operating when the parts are in closed circuit position, to bias the arm and actuator in different rotative directions about their pivots and, when the parts are in open circuit position, to bias the arm and actuator in the same rotative directions about their pivots, the pivotal connection between arm and actuator comprising a seat on the actuator, with the spring and latch operating to hold the arm in seated position with respect to the actuator.

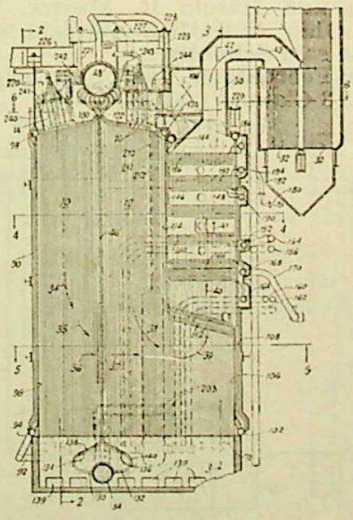
2,330,238
LUBRICATING COMPOSITION
Carl F. Prutton, East Cleveland, Ohio, assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Original application March 1, 1939, Serial No. 259,230. Divided and this application January 8, 1940, Serial No. 312,859
38 Claims. (Cl. 252—54)

1. A lubricating composition comprising at least 80% refined mineral lubricating oil with the gum solvent properties of such composition improved by incorporating therein a total of from about .1% to about 20%, based on the amount of mineral lubricating oil of both an oil-soluble halogen-bearing hydrocarbon and an oil-soluble organic oxygen compound, said compounds being of the type which will not substantially evaporate from such lubricating composition at ordinary temperatures.

2,330,239
LUBRICANT
Carl F. Prutton, Cleveland Heights, Ohio, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio, a corporation of Ohio
No Drawing. Application November 25, 1940, Serial No. 367,031
21 Claims. (Cl. 252—53)

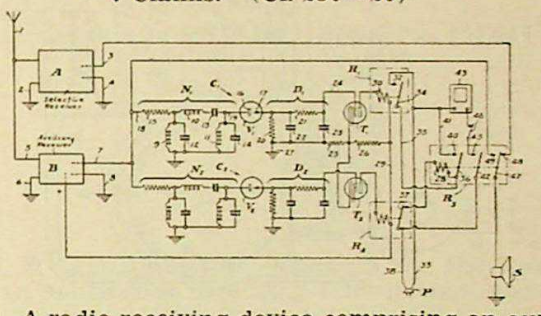
1. A liquid lubricating composition comprising a major proportion of mineral lubricating oil and an oil-soluble salt of an aromatic acid in an effective amount insufficient, however, to substantially change the viscosity of the composition.

2,330,240
STEAM GENERATOR
Arthur E. Raynor, Rockville Centre, N. Y., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application June 14, 1941, Serial No. 397,997
9 Claims. (Cl. 122—235)



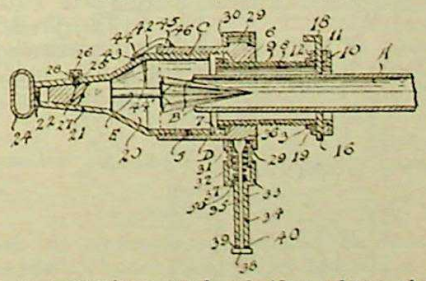
3. In a steam generator, two independently fired furnaces arranged in series as to gas flow and separated by a partition wall including steam generating wall tubes disposed in wall forming alignment, said partition wall having its lateral edges spaced from the side walls of the furnaces so as to provide free inter-furnace communication to prevent damage to said wall by differential pressures between the furnaces, the partition wall also being of such construction over at least the major part of its face that no substantial gas flow takes place between its adjoining wall tubes.

2,330,241
RADIO RECEIVING DEVICE
Gerald G. Roberts, Akron, Ohio, assignor to W. O'Neil, Akron, Ohio
Application October 17, 1941, Serial No. 415,398
7 Claims. (Cl. 250—20)



1. A radio receiving device comprising an auxiliary receiver turnable to signal energy from a transmitting station; a speaker adapted to operate when connected into the output of said receiver, but normally unconnected thereto; connecting means, including a band-pass filter, a delay network and a relay which are connected in series to the output of said receiver, said filter being capable of transmitting only a limited frequency range and being adapted to operate said relay by current passed therethrough, for connecting said speaker to said receiver in response to a predetermined minimum interval of modulations of the output of the station to which said receiver is tuned, which modulations are within said limited frequency range; a signal device; a power supply for said signal device; and means also operable by a frequency within said limited range for operatively connecting said signal device to said power supply.

2,330,242
REAMER
Alvin L. Romero, Downey, Idaho
Application August 25, 1941, Serial No. 408,200
3 Claims. (Cl. 77—73)



2. In a reaming tool of the class described, the combination of inner and outer casings screwed together with the inner casing formed with a frusto-conical end; a smaller cylindrical casing screwed into a constricted threaded end on the outer casing; means to grip a pipe concentrically within said smaller casing; means to lock the inner and outer casings into a single rotatable unit; and a ratchet mounted around teeth formed on the perimeter of the outer casing, said ratchet being adapted to rotate the inner and outer casings and the reaming tool simultaneously to cut the burr in the end of the pipe on which the entire device is mounted.

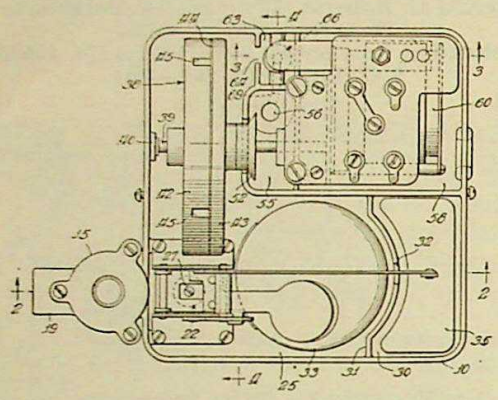
2,330,243

LIQUID METERING DEVICE

Arthur V. Sampsel, Mendota, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

Application June 12, 1942, Serial No. 446,759

9 Claims. (Cl. 221—97)



1. A liquid metering device comprising a receptacle having a main liquid chamber and having a metering chamber separate therefrom, rotatable means for conveying liquid from said main chamber to said metering chamber, an electrical motor actuating said rotatable means, an emergency valve normally closing an emergency outlet, and means controlling said emergency valve so that upon stoppage of the electrical energy said emergency valve will open to permit escape of fluid from the main chamber.

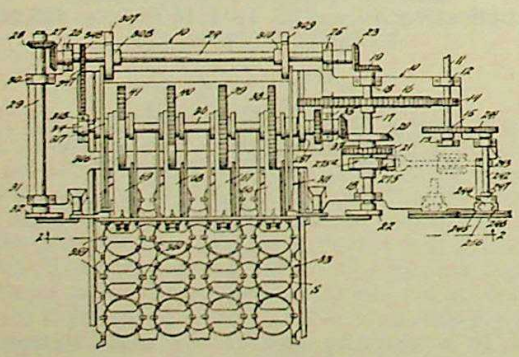
2,330,244

MACHINE AND METHOD FOR ASSEMBLING SPIRAL SPRING STRUCTURES

Joseph A. Saval, Jamaica, N. Y., assignor to Joseph Aronauer, Inc., Brooklyn, N. Y., a corporation of New York

Application December 3, 1941, Serial No. 421,514

45 Claims. (Cl. 140—3)



1. In a spring assembling machine, means to intermittently move a plurality of transversely aligned rows of springs in a direction longitudinally of said machine, means to feed tie wires transversely of said machine between said rows, means to wrap portions of said tie wire about adjacent portions of said springs to join successive rows, means intermittently operative to drive said first means, and a second driving means to drive said feed means and wrapping means when said first driving means is inoperative.

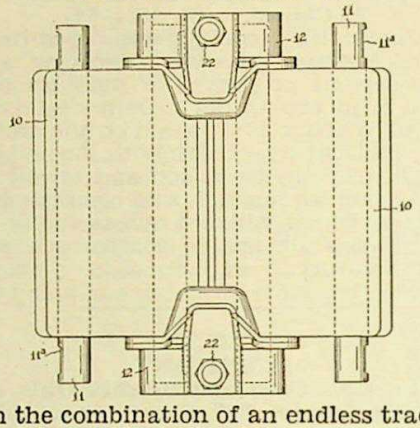
2,330,245

CONNECTING AND GUIDING MEANS FOR ENDLESS TRACKS AND THE LIKE

Rudolph I. Schonitzer, Shaker Heights, and Edwin L. Allen and Harold B. Muster, Cleveland Heights, Ohio; said Allen and said Muster assignors to said Schonitzer

Application February 14, 1942, Serial No. 430,987

8 Claims. (Cl. 305—10)



1. In the combination of an endless track composed of tread blocks having link pin crossbars and wherein the track travels over sprocket or bogie wheels, a combined crossbar connector and track guide comprising a metal plate member having a link portion adapted to connect crossbars of adjacent tread blocks, said member having an offset portion formed by bending said plate member inwardly and then upwardly in a direction opposite to said link portion, and a reinforcing plate member of channel form having a web generally parallel to said first named plate member where said offset portion is bent, said plate members being welded together.

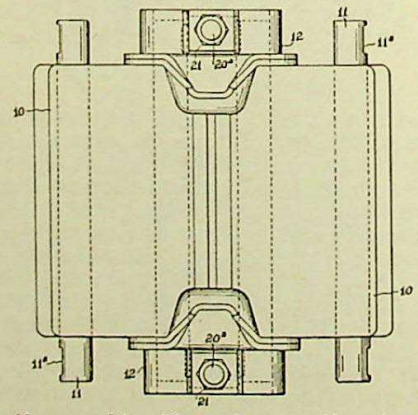
2,330,246

CONNECTING AND GUIDING MEANS FOR ENDLESS TRACKS AND THE LIKE

Rudolph I. Schonitzer, Shaker Heights, and Edwin L. Allen and Harold B. Muster, Cleveland Heights, Ohio; said Allen and said Muster assignors to said Schonitzer

Application February 14, 1942, Serial No. 430,988

8 Claims. (Cl. 305—10)



1. In the combination of an endless track composed of tread blocks having crossbars and wherein the track travels over sprocket or bogie wheels, a combined track guide and end connector for said crossbars comprising a sheet metal member having a link portion adapted to connect crossbars of adjacent tread blocks, said member having an offset track guide portion formed by bending said sheet metal inwardly and then upwardly

in a direction opposite to said link portion, a plate member secured to and reinforcing said offset portion, said plate member having a portion generally parallel to and welded to said link portion, and flange means on said generally parallel portion of said plate member adapted to embrace said crossbars.

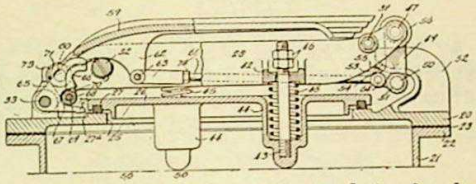
2,330,247

CLOSURE FOR TRUCK TANKS AND THE LIKE

Carlyle H. Scott, Forest Hills, and Paul H. Scott, Flushing, N. Y., assignors to The Safety Tank Truck Corporation, New York, N. Y., a corporation of New York

Application May 25, 1940, Serial No. 337,270

7 Claims. (Cl. 292—336)



1. In a filling structure for truck tanks, having a base plate, a frame pivotally mounted on said base plate, a strike carried by said base plate, said strike being in the form of a hook having the inner surface of its end portion disposed substantially horizontally but gradually curving upwardly at the tip, a latch therefor carried by said frame, including resilient yieldable means for maintaining said latch in engagement with the strike when the frame is moved down, a locking lever pivotally mounted adjacent one side of said frame, means interconnecting said latch and said locking lever and adapted when angled relatively to said frame, to move said latch out of engagement with the strike and to tension said resilient means operative on said latch, trigger means adjacent the other side of said frame for holding said locking lever in said angled position in which said resilient means is tensioned, and means for tripping said trigger means and releasing the latch when said frame is moved down so that the latch engages said strike.

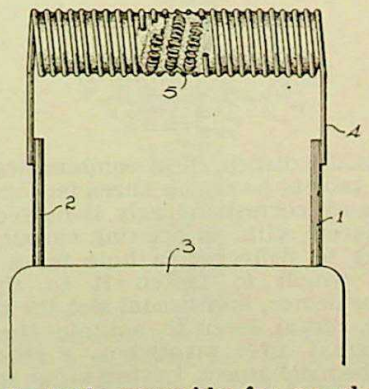
2,330,248

ELECTRODE FOR GASEOUS DISCHARGE DEVICES

William V. Smith, Salem, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Application January 30, 1942, Serial No. 428,887

4 Claims. (Cl. 176—126)



1. An electrode assembly for an electric gaseous discharge device comprising: a pair of lead-in wires; an outer, coiled, filamentary wire having each end connected to one of said lead-in wires; an inner, coiled-coiled filamentary wire having a major and a minor coil and located within the coils of said outer wire; and a filling of electron-emissive material within and between the turns of said major and minor coils and within the turns of said outer coil.

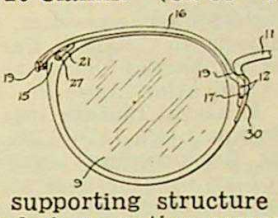
2,330,249

OPHTHALMIC MOUNTING

Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application June 15, 1942, Serial No. 447,017

10 Claims. (Cl. 88—41)



1. A lens supporting structure for the lenses of an ophthalmic mounting comprising a pair of continuous undivided non-metallic lens rims each having an attachment lug on the nasal side thereof protruding outwardly of the general contour line of the rim with said rims having a portion of an enlarged cross-sectional dimension on the upper temporal sides thereof, a normally separate bridge member secured to each of the attachment lugs on the nasal sides of the rims with a portion thereof overlying a side surface of each of said attachment lugs and being adapted to support the lens rims in desired spaced relation with each other, relatively long and slender bar-like metallic temple supports having an end secured to the attachment lugs on the side thereof opposed to the bridge by securing means extending through the said attachment lugs and connected with the bridge and with the ends of the temple supports, the major portion of the length of the temple supports being shaped substantially to follow the upper contour shape of the lens rims with said temple supports terminating in rearwardly extending temple connection ends, and an adjustable brace member secured adjacent one end thereof to the temple support at a point spaced inwardly of the temple connection end and extending from said secured end outwardly substantially in the direction of the circumferential line of the rim and terminating in a normally free end secured to the portion of the rim of larger cross-sectional dimension by a connecting member extending through said rim.

2,330,250

TELEGRAPH APPARATUS

Kimmel A. Sylvester, Skokie, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application October 17, 1941, Serial No. 415,375

9 Claims. (Cl. 178—42)

1. In combination, a selector mechanism, a recording device, primary means responsive to line signals for controlling, through said selector

mechanism, the operation of said recording device, secondary means for controlling through said selector mechanism said recording device, a timing device effective under the control of a normally energized magnet for controlling, through said secondary means, the operation of said recording device for a predetermined period, means under the control of the line signals for interrupting the operation of said timing device, and means for rendering said interrupting means ineffective to interrupt said timing device.

2,330,251

FIREPROOFING TEXTILE MATERIALS

William Ivan Taylor, Henry Charles Olpin, and Kenneth Ronald House, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application June 26, 1940, Serial No. 342,504. In Great Britain July 28, 1939

2 Claims. (Cl. 117—136)

1. Process for fire-proofing textile materials having a basis of an organic derivative of cellulose, which comprises impregnating the material with from 5 to 10%, based on the weight of the textile material, of a halogenated alkyl ester of phosphorus by immersing said material in a bath containing a halogenated alkyl ester of phosphorus, a dispersing agent, pine oil and water.

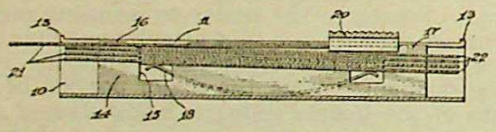
2,330,252

BLADE MAGAZINE

Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Application April 26, 1940, Serial No. 331,847

17 Claims. (Cl. 206—16)



17. A magazine for safety razor blades, having in combination, spaced projections, a stack of slotted blades thereon having ends of alternate blades projecting in opposite directions longitudinally and thus providing overlapping portions in the stack, the said projections being constructed and arranged to engage portions of said blades and restrain movement inwardly toward the overlapping portions while allowing outward movement in the opposite directions, a slide member having spaced moving walls at opposite sides thereof, and means for slidably mounting said member for movement through a distance equal at least to the length of the overlapped portions plus the distance the blade moving walls are spaced apart.

2,330,253

BELTING

William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application February 7, 1941, Serial No. 377,853

4 Claims. (Cl. 117—121)

1. Belting of improved properties for use as power transmission and conveyor belts, comprising cotton belting material having incorporated therein an organic derivative of cellulose plasticized with a halogenated alkyl phosphate.

2,330,254

ARTICLE OF MANUFACTURE

William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application June 28, 1941, Serial No. 400,347

8 Claims. (Cl. 106—177)

1. Textile materials of improved hand and fire resistant properties, said materials having a basis of an organic derivatives of cellulose selected from the group consisting of cellulose esters and cellulose ethers and containing from 5 to 50% tri-chlorethyl-phosphate as the sole plasticizing and fire-retarding agent.

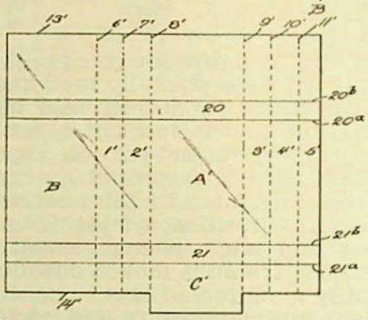
2,330,255

SEMICARTON

John F. Ames, Selma, Ala.; Evelyn H. Ames executrix of said John F. Ames, deceased

Application June 14, 1939, Serial No. 279,210

3 Claims. (Cl. 229—55)



1. A bellows-type bag having integral bottom, front, rear and side portions with said front, rear and side portions extending vertically and said bottom portion lying in a flat plane, extending substantially horizontally, the inner surfaces of the vertically extending portions only, of said bag, adjacent said bottom portion, having a lining of tape contacting and extending a predetermined distance above said bottom portion, from the plane of said bottom portion, said bag when filled, presenting sharply defined horizontal and vertical surfaces, said side portions being at right angles to said front and rear portions.

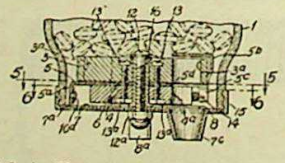
2,330,256

TABLET DISPENSER

Fred B. Ashton, St. Louis, Mo.

Application July 10, 1940, Serial No. 344,715

2 Claims. (Cl. 312—94)



2. In a tablet dispenser, in combination, a container for tablets having a threaded opening; a cap or closure correspondingly threaded for attaching thereto with an opening through which tablets may be delivered, a hole for a stud by means of which to fasten it to the other parts of the device, and arcual slot for the operation of a radial lever to actuate the mechanism; a radial lever pivoted to a stud in the center of the mechanism, having a flat spring for the movement of a cog disk a definite distance to permit the discharge of a tablet; a cog disk with open spaces corresponding to a collector disk above which collects the tablets; a collector disk

having arcuately spaced on its periphery, holes for collecting tablets; a washer between the cog disk and collector disk to space the two disks, all being fastened together with bolts or rivets into a unit; a frame upon which to mount the unit, with a lip formed up and over the periphery of the collector disk to prevent more than one tablet being discharged at one time, and with three legs or lugs formed down to fasten in slots in a plate to provide space for the rotation of the cog disk and the arcual operation of a lever; and a plate fastened to the three legs of the frame with slots therein to receive the legs, a hole through which a stud upon which the lever is pivoted may extend through the threaded cap, and a spout to guide the tablets to delivery.

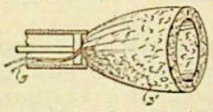
2,330,257

PROCESS FOR MAKING TAMPONS

Stacy P. Bailey, New York, N. Y., assignor, by mesne assignments, to John F. Wallace, New York, N. Y.

Application January 14, 1939, Serial No. 250,973

4 Claims. (Cl. 18—55)



1. A process of producing a tampon comprising compressing a substantially circular layer of absorbent, fibrous material so that the center of said circular layer forms the lower end of the tampon, gathering the edges of said layer to form a cup-shaped body and compressing said body transversely to a cylindrical body under such pressure that the cylindrical body will hold its cylindrical shape while dry solely as a result of said compression, but will expand when wet to form a conical shaped body as a result of the expansion of the gathered and compressed edges.

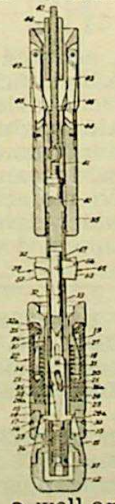
2,330,258

TRIP DEVICE FOR WELL APPARATUS

Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Application September 22, 1941, Serial No. 411,801

14 Claims. (Cl. 166—12)



1. In combination, a well apparatus adapted to be lowered in a well bore for the performance of a function therewithin, a first latch means for preventing functioning of said apparatus, and pivoted latch means coupled to said first latch means for preventing release of the latter until desired.

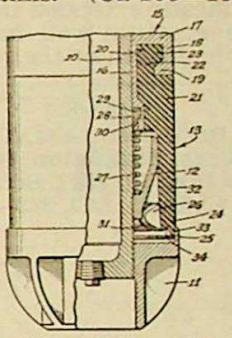
2,330,259

WELL PACKER

Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Application September 22, 1941, Serial No. 411,802

5 Claims. (Cl. 166—13)



1. A cup-shaped packing adapted to be expanded laterally outwardly by a conical expander, said packing comprising a plurality of inwardly directed fingers arranged circumferentially adjacent one another around the interior of said packing at its free end, said fingers lying in a plane substantially at right angles to the axis of the packing for engagement with the tapered surface of said expander to expand said free end of the packing laterally outwardly.

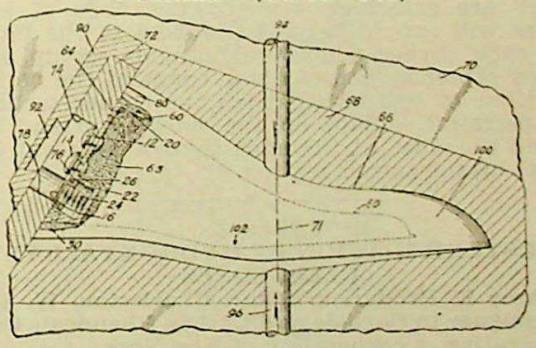
2,330,260

METHOD OF MAKING SHOE LASTS

William L. Baxter, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application January 24, 1942, Serial No. 428,043

2 Claims. (Cl. 12—146)



1. That method of making a part of a separable last having at one end a joint surface and a connecting mechanism projecting therefrom, which consists in placing in a mold cavity larger than the desired product a core having a joint surface and a connecting mechanism permanently secured thereto and projecting therefrom, casting a moldable material about said core with a finished joint surface flush with the joint surface of the core, thus leaving the connecting mechanism exposed, positioning said molded part in a lathe chuck by engagement with said mechanism, and then reducing to the desired dimensions only that molded portion of the last part which extends beyond the joint surface.

2,330,261

ADJUSTABLE REED

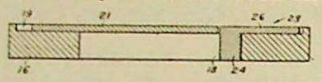
Thomas W. Beyer, San Rafael, Calif.

Application April 18, 1941, Serial No. 389,126

6 Claims. (Cl. 84—363)

1. In a device of the character described, a reed

frame having an air aperture extended therethrough, a reed projecting over said aperture, means to adjustably hold the reed in place, and



compensator means extended into said aperture to adjust the aperture wall inside at one end according to the length of the reed adjustments.

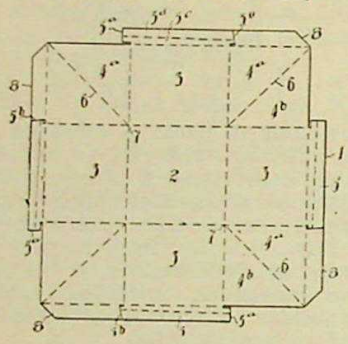
2,330,262

PACKING BOX AND LINING THEREFOR

Charles A. Biggs, Burlington, Ontario, Canada

Application June 19, 1942, Serial No. 447,613

9 Claims. (Cl. 229—31)



1. A box lining blank formed of a single piece of cardboard or similar material scored to form a bottom, sides, corner pieces between adjacent sides, each corner piece being scored diagonally from the junction of adjacent sides to form corner sections, a flap on the outer edge of each side adapted to be bent outwardly substantially at right angles to each side, the flaps on the sides being of greater length than the sides to which they are attached, whereby the ends of said flaps will extend beyond the sides of the lining at each corner when the lining is set up, and flaps attached to the outer edges of the corner sections of less length than the corner sections to permit the flaps on the sides to extend beyond the sides at the ends thereof adjacent the flaps on the corner section.

2,330,263

ESTERIFICATION OF HYDROXYALKYL CELLULOSES

Aubrey E. Broderick, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application September 10, 1940, Serial No. 356,183

18 Claims. (Cl. 260—226)

1. Process for producing a fatty acid ester of an hydroxyalkyl cellulose, which comprises pretreating a dry hydroxylalkyl cellulose, derived from unmercerized cellulose, with a lower fatty acid anhydride, in the absence of an added esterification catalyst, reacting the resultant mixture with an esterifying bath containing an esterification catalyst and a lower fatty acid anhydride, and separating from the reaction mixture the ester thus produced.

2,330,264

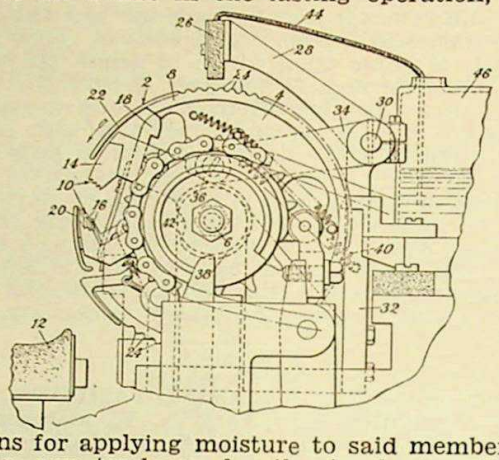
SHOE MACHINE

Charles G. Brostrom, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application September 30, 1942, Serial No. 460,212

8 Claims. (Cl. 12—7)

2. In a lasting machine, a member movable in frictional contact with the bottom face of an insole on a last in the lasting operation, and



means for applying moisture to said member to lessen any tendency for the insole to adhere thereto.

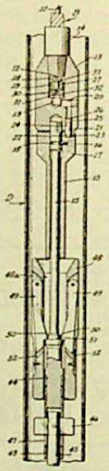
2,330,265

EXPLOSIVE TRIP FOR WELL DEVICES

Clarence E. Burt, Los Angeles, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Application May 16, 1941, Serial No. 393,751

10 Claims. (Cl. 166—12)



1. An apparatus adapted to be lowered in a well bore on a wire line, including a firing head, a movable weight, releasable means for preventing movement of said weight with respect to said head, and explosive instrumentalities within said head for releasing said means to enable dropping of said weight with respect to said head to a position wherein said weight initiates operation of a well device within said well bore.

2,330,266

CEMENTING PLUG

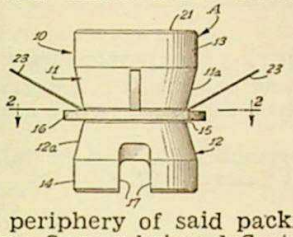
Clarence E. Burt, Los Angeles, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Application March 16, 1942, Serial No. 434,894

2 Claims. (Cl. 166—1)

1. A well cementing plug adapted for use at the bottom end of a charge of cement slurry, including a body having a generally cylindrical imperforate upper portion to prevent flow of liquid therethrough and a lower portion provided with by-pass openings to permit flow of fluid around said plug, said upper and lower portions tapering inwardly toward each other to provide an inter-

mediate portion of reduced diameter, a packing disc secured to said body at said intermediate portion and adapted to slidably seal with the wall of a well casing, and flexible spring fingers secured to said body adjacent and above said packing disc and extending upwardly and radially outward therefrom a material distance



beyond the periphery of said packing disc, said flexible spring fingers being deflectable inwardly and away from said packing disc by said casing to permit upright insertion of said plug in said casing, and deflectable outwardly and adjacent said packing disc by the end of said casing if inverted insertion of said plug therewithin is attempted.

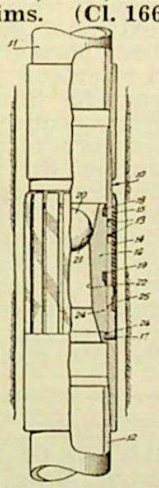
2,330,267

WELL CEMENTING APPARATUS

Clarence E. Burt, Los Angeles, and William S. Althouse, Jr., South Pasadena, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Application April 3, 1942, Serial No. 437,548

11 Claims. (Cl. 166—1)



1. Apparatus of the character described, including a tubular member having ports adapted to form part of a casing string, a sleeve valve within said member for controlling passage of fluids through said ports, said sleeve valve being made of readily drillable material and having circumferentially spaced inserts in said material of less readily drillable material, and frangible means extending into said member and inserts for holding said sleeve valve in position closing said ports, said first-mentioned readily drillable material having such characteristics as to be incapable alone of effectively disrupting said frangible means upon imposing sufficient force on said valve.

2,330,268

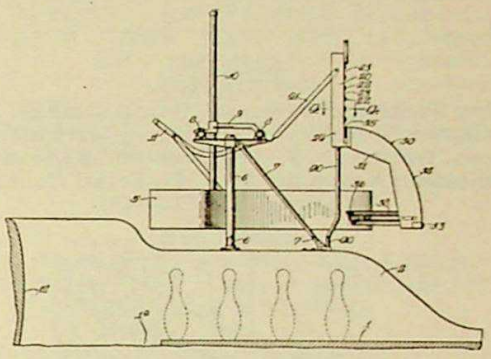
MASKING STRUCTURE FOR BOWLING ALLEYS

Ellery J. Cloutier, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware

Application November 29, 1941, Serial No. 420,926

6 Claims. (Cl. 273—54)

1. In a masking structure for a bowling alley extending across the alley and upwardly from a line spaced above but adjacent the upper ends of the bowling pins as set up for play, a portion of said structure being composed of reticulated ma-



terial combined with opaque bars spaced apart to form elongated sight openings in said material through which a person at the pit may observe a person at the approach end of the alley.

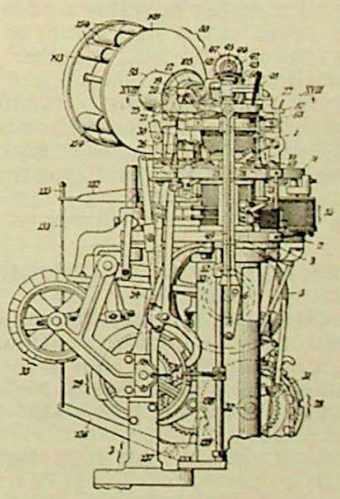
2,330,269

KNITTING MACHINE

Robert H. Coleman and Osben D. Hunt, Hickory, N. C., assignors of one-fourth to Ernest E. Whisnant, and one-fourth to Clarence L. Whisnant, both of Hickory, N. C.

Application January 6, 1941, Serial No. 373,298

20 Claims. (Cl. 66—135)

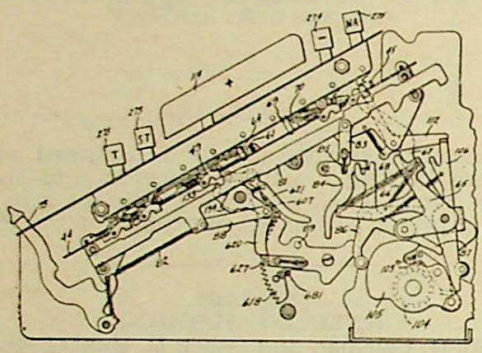


1. In a knitting machine having a rotating needle cylinder, means for selecting a group of predetermined needles and projecting them beyond the remaining needles in the cylinder; wrap yarn feeding means including a rotating head supported adjacent the needles on an axis at right angles to the needle cylinder and having two guide eyes for individual wrap yarns; and means determining knitting of one of the yarns only by an intermediate needle of the selected group and the other yarn only by the outer needles of said selected group.

20. In a circular knitting machine of the type having a rotating needle cylinder, drive means therefor, a rotary wrap yarn feeding means and automatic stop means; in combination therewith a rotating support for wrap yarn bobbins, individual spring-influenced take-up fingers for controlling the wrap yarns, an element so positioned relative to said take-up fingers as to be engaged and operated by any one of them in the

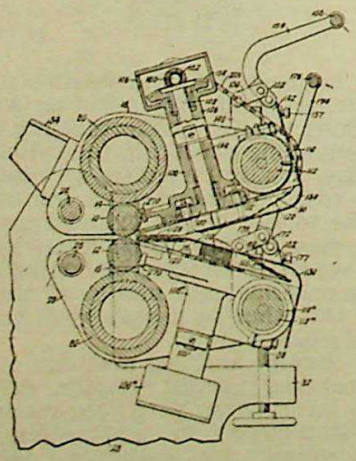
event of a rupture of the corresponding wrap yarn, and a connection between said element and the automatic stop means whereby upon such yarn rupture, said stop means is actuated to stop the machine.

2,330,270
REGISTER
Loring Pickering Crosman, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application November 29, 1941, Serial No. 421,016
1 Claim. (Cl. 235—60)



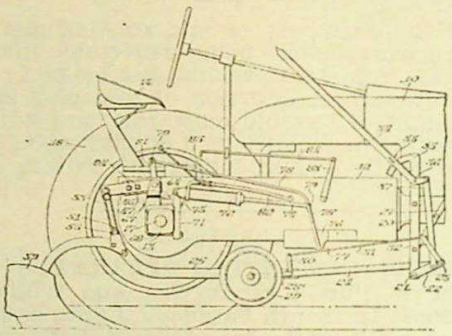
In a motor driven listing register having a driving train, a clutch in said train, printing means operable by said train, an accumulator, spring actuated means for zeroizing said accumulator, and a total key operable to engage the clutch; a total control member movable under control of the driving train upon operation of the total key, means operable by said member to initiate operation of the zeroizing means, and a member displaceable by the total control member to disengage the clutch, said zeroizing means acting to restore the displaceable member and thereby to reengage the clutch and effect printing.

2,330,271
MACHINE FOR TREATING HIDES AND SKINS
Wallace M. Cutler, Gloucester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 3, 1941, Serial No. 391,743
23 Claims. (Cl. 69—43)



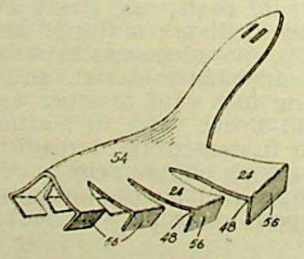
23. In a machine for treating sheet material, work treating rolls arranged for power operation about horizontal axes to grip sheet material being fed to said rolls in a substantially horizontal path, power operated means located closely adjacent to the bite of the rolls and arranged to spread out the sheet material and to insert the same directly into the bite of the rolls whereby lateral tension is kept in the portion of the sheet material entering the bite.

2,330,272
AGRICULTURAL IMPLEMENT
Arthur G. Evans, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 31, 1940, Serial No. 372,593
1 Claim. (Cl. 97—47)



In combination, a tractor having a longitudinally extending body portion, a transverse portion extending laterally from the body portion, a longitudinally extending working tool beam connected to the body portion for vertical movement and adapted to extend beneath the transverse portion, means for lifting the tool beam including arm means connected with the tool beam, means in the form of a yoke for mounting the arm means on the transverse portion for rocking movement, the arm means being disposed between the spaced portions of the yoke, a fluid-actuated device arranged generally parallel with the longitudinally extending body portion and connected to the arm means to effect rocking of the same, and common means for securing the yoke means and the fluid-actuated device to the transverse portion.

2,330,273
MANUFACTURE OF SANDALS
Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 12, 1941, Serial No. 402,166
2 Claims. (Cl. 12—148)



1. That improvement in methods of making sandals which consists in providing an upper in a flat condition comprising a body portion for covering the upper side of the ball of the foot, a strap-like rear extension for overlying the instep of the foot, and a plurality of strap members extending laterally from said body portion and having free outer edges, marking said strap members along the edge of a flat templet overlaid upon the vamp thereby making gage lines on said strap

members to define outer portions for attachment to an insole and inner portions which are to extend above the bottom of the sandal, molding said body portion and said instep extension by means of heat and pressure into conformity with the longitudinal and transverse curvatures of the upper side of the ball portion of a last without molding said strap members, thereafter bending the outer end portions of said unmolded strap members abruptly away from the outer side of the upper at localities determined by said gage lines thereby forming permanent sharp creases in the inner sides of said members, assembling said upper with an insole off the last by alining said creases with the edge of the insole, securing said end portions to the insole, and securing an outsole to said end portions.

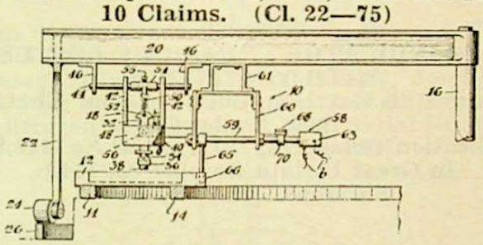
2,330,274

MACHINE AND METHOD FOR MARKING CAST OR MOLDED ARTICLES

Augustus H. Fiske, Jr., Cataumet, Mass., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey

Application September 18, 1941, Serial No. 411,277

10 Claims. (Cl. 22—75)



1. In a machine for casting metal shapes, means comprising a movable support for retaining a mold to receive molten metal, mechanism associated therewith and operable by means responsive to the movement of said mold relative to said mechanism to stamp an identifying mark on the molded metal shape while retained in said mold at a predetermined time after casting, said marking mechanism comprising a solenoid operated stamper, said solenoid comprising an armature, a die holder attached to said armature, said die holder including means for retaining one or more marking dies, means for pivotally mounting said solenoid stamping mechanism over said mold whereby the said die holder and associated mechanism can move with said mold during the stamping operation, and means for electrically controlling the operation of said stamping mechanism.

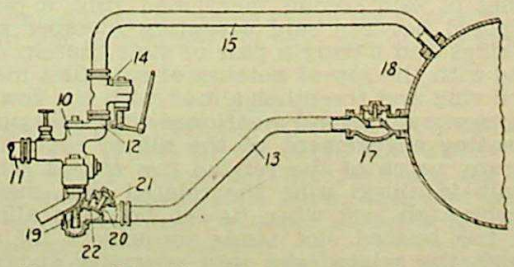
2,330,275

INJECTOR DISCHARGE CONTROL VALVE

Bengt E. Folke, Mamaroneck, N. Y., assignor to Nathan Manufacturing Company, New York, N. Y., a corporation of New York

Application September 25, 1942, Serial No. 459,647

9 Claims. (Cl. 103—258)



1. In combination, a steam injector having a delivery end, a delivery check valve at said end, a steam boiler, a boiler check valve at said boiler, a water delivery pipe between said delivery check valve and said boiler check valve, a supplemental check valve in the delivery end of said injector controlling passages by-passing said injector delivery check valve, and tensioning means in said supplemental check valve, said supplemental check valve opening in a direction opposite to that of said delivery check valve by pressure in said delivery pipe when the injector is at rest for relieving the pressure in said pipe to the pressure of said tensioning means.

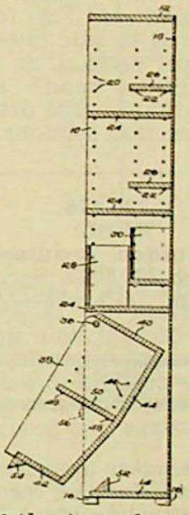
2,330,276

BOOKCASE

Charles H. W. Foster, Marblehead, Mass.

Application May 2, 1941, Serial No. 391,537

1 Claim. (Cl. 312—34)



A bookcase of the type described, comprising a housing embodying spaced and parallel side walls extending vertically to a substantial height from the floor, a box-like book-holding section within the lowermost portion of the housing adjacent to the floor and embodying spaced and parallel side walls respectively adjacent to the said side walls of the housing and cooperating bottom and rear walls for supporting books in vertical position, means pivotally supporting the book-holding section on and within the housing for movement about an axis extending through the top front corner portions of the side walls of said section and on which pivotal support the section normally hangs from said means with its bottom portion swung outwardly-forwardly of the housing, means for holding the section swung back into the housing, and a plurality of relatively spaced and horizontal book-holding shelves between and supported on the side walls of the housing above the said lowermost portion thereof, the arrangement being such that all books in the bookcase can be clearly viewed from a normal eye vision level at the front and books removed and replaced from a normal standing position when said section is swung to its position outwardly-forwardly of the housing.

2,330,277

MULTIPLE-BAR, SELF-DUMPING MOLD

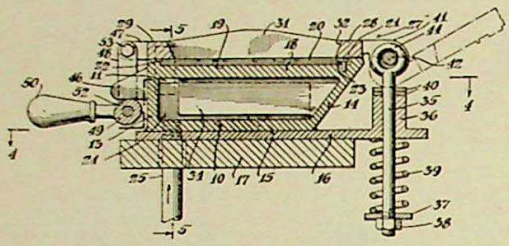
Arthur Fritschle, University City, Mo., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey

Application May 16, 1942, Serial No. 443,274

8 Claims. (Cl. 22—142)

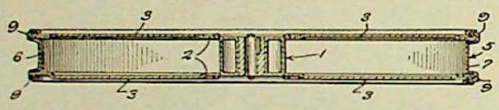
1. In an ingot mold, a lower, water-cooled sec-

tion, an upper uncooled plate-like member forming an upper section, a plurality of guides secured to said lower section, rods slidably mounted in said guides, abutments on said rods, springs surrounding said rods between said lower section and said abutments, eyes secured to said rods, said upper section having lugs, a pintle passing



through said eyes and said lugs forming a hinge, snubbing lugs secured to said lower section, links pivoted to said upper section, an eccentric drum pivoted to said links, a handle secured to said drum whereby rotation of said drum tightens the engagement between said sections.

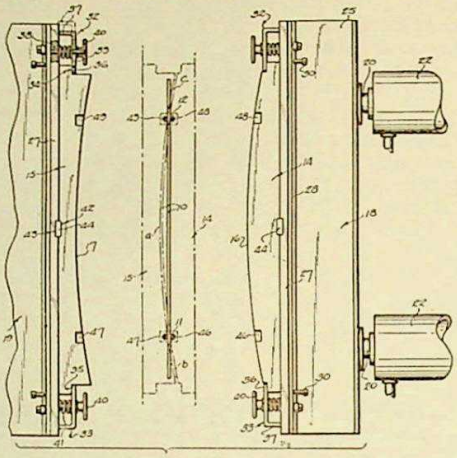
2,330,278
REEL
Julius M. Gordon, Beaumont, Tex.
Application March 27, 1943, Serial No. 480,807
1 Claim. (Cl. 206—59)



A reel of the character described comprising a pair of circular heads for the reception of a film therebetween, a protective band for the film removably mounted on the heads, said band including complemental half-sections hingedly connected at one end, and means for detachably securing the free ends of the band sections together, said means comprising a substantially U-shaped, radially projecting loop on one of the sections, a shaft journaled in the leg portions of said loop, a button on one end of said shaft, and a longitudinally curved, resilient hasp hingedly mounted on the other section and engageable with the loop, said hasp having an opening therein for the reception of the loop and further having a slot therein communicating with the opening for the passage of the button, said button being engageable on the hasp for securing said hasp in position on the loop.

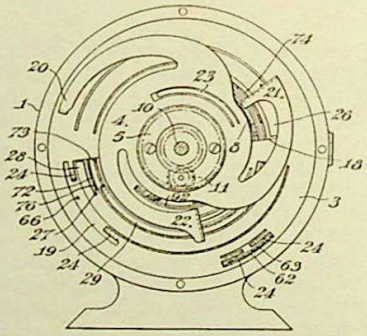
2,330,279
APPARATUS FOR USE IN THE SHAPING OF GLASS SHEETS OR PLATES
Arthur McK. Greaves-Walker, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application March 27, 1940, Serial No. 326,228
3 Claims. (Cl. 49—67)

1. In an apparatus for shaping glass sheets, shaping molds of a plaster composition having complemental convex and concave bending faces adapted to engage opposite surfaces of the sheet and to shape said sheet therebetween to the desired curvature, said shaping molds being provided with shoulders at the opposite ends thereof, supporting means for each shaping mold comprising a vertical attaching plate, clamping means carried by each plate and engaging the shoulders on the respective mold for removably clamping said mold upon said attaching plate, and means carried by the attach-



ing plates for lining up the molds both horizontally and vertically.

2,330,280
DATE INDICATOR PRIMARILY FOR USE WITH TIMEPIECES
Thomas Hills Harrison, Bolsover, near Chesterfield, England
Application October 6, 1941, Serial No. 413,873
In Great Britain October 25, 1940
6 Claims. (Cl. 58—5)



1. A date indicating device comprising a rotatable date of the month indicating ring having the date numbers 1 to 31 spaced equidistantly therearound, a rotatable month of the year indicating ring disposed concentrically with respect to said first mentioned ring and having designations of the twelve months of the year spaced equidistantly therearound, an annular row of notches in each ring, a rotatable actuating member for said rings to be rotated through one complete cycle during each twenty-four hour period of time, said actuating member including a first arm having a nib for cooperation with the notches of said first mentioned ring and a second arm having a nib for cooperation with the notches of said second mentioned ring, a plate interposed between said actuating member and said rings and having a pair of slots therein one alined with the row of notches of said first mentioned ring and the other alined with the row of notches of said second mentioned ring, said plate preventing engagement of the nib of each arm with any notch of the related row except when the nib is alined with the related slot, means whereby each arm when its nib becomes alined with the related slot tends to project its nib through the related slot into operative engagement with a notch of the related ring, means whereby the engagement of the nib of said first

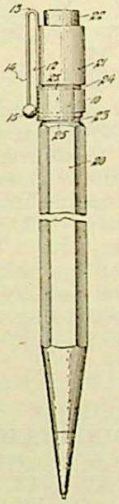
mentioned arm with any notch of said first mentioned ring is limited to an angle of rotation of said arm corresponding to one thirty-first part of a circle so that said first mentioned ring is advanced one date step during each complete cycle of rotation of said actuating member, a depressible tongue on said plate for preventing the nib of said second mentioned arm from being projected through its related slot except when said tongue is depressed, means whereby said first mentioned ring holds said tongue against depression until occurrence of the thirty-first step of advance of said first mentioned ring and then permits depression of said tongue to permit engagement of the nib of said second mentioned arm with a notch of said second mentioned ring, and means whereby the engagement of the nib of said second mentioned arm with any notch of said second mentioned ring is limited to an angle of rotation of said arm corresponding to one-twelfth part of a circle so that said second mentioned ring is advanced one month step for each cycle of rotation of said first mentioned ring.

2,330,281

CLIP

Hugo S. Hasselquist, Oak Park, Ill., and Charles R. Nichols, Jr., Jersey City, N. J., assignors to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey

Application September 12, 1942, Serial No. 458,113
5 Claims. (Cl. 24—11)



1. In combination, a member to be secured to a pocket edge, a pencil clip comprising a strip of spring material, and a resilient clamp at one end of the strip for securing said end of the strip to said member, said strip being bent back on itself in a substantially U-shaped bend and having a projection on the free end adapted to coact with the other leg of the strip to clamp material therebetween and interengaging means on the clip and member so spaced from the end of the member that the closed end of the U-shaped bend will not extend beyond said end of the member.

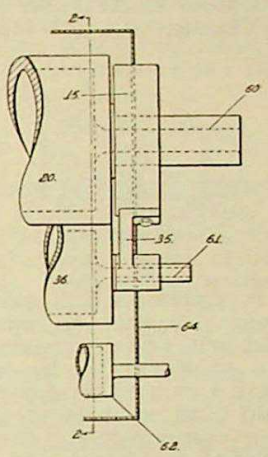
2,330,282

MANUFACTURE OF CONTINUOUS SHEETS OR WEBS OF PLASTIC MATERIAL

Benjamin P. Hazeltine, Chicopee Falls, and Elmer R. Derby, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application July 31, 1940, Serial No. 348,612
12 Claims. (Cl. 18—57)

1. In a continuous process of making a web of thermoplastic material having polished surfaces, which includes the steps of continuously extruding a volatile-solvent-containing thermoplastic material in a plastic condition into the form of a continuously moving web and continuously polishing the surfaces of said moving web, the improvement for imparting a polish to both sur-



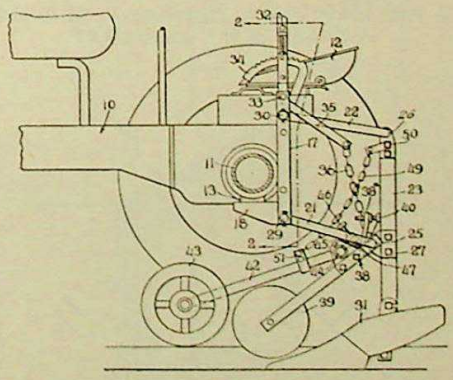
faces of said moving web which comprises evaporating a portion of the solvent from said web, then condensing a portion of the evaporated solvent on a pair of polishing means, pressing one surface of said moving web against one of said polishing means and then pressing the other surface of said moving web against the other polishing means.

2,330,283

TRACTOR-MOUNTED IMPLEMENT

James L. Hipple, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

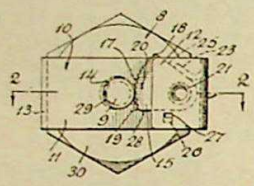
Application March 20, 1941, Serial No. 384,279
8 Claims. (Cl. 97—47)



1. In combination, a tractor having a rear axle portion, a tool beam connected to the tractor for vertical movement and located rearwardly of the axle portion, a ground-working tool carried by the tool beam in rear of the axle portion, depth gauge means adapted to be connected to the tool beam and arranged to extend forwardly and beneath the rear axle portion of the tractor, means for vertically moving the tool beam, and lost motion means for connecting the gauge means to the tool beam to permit a substantial amount of

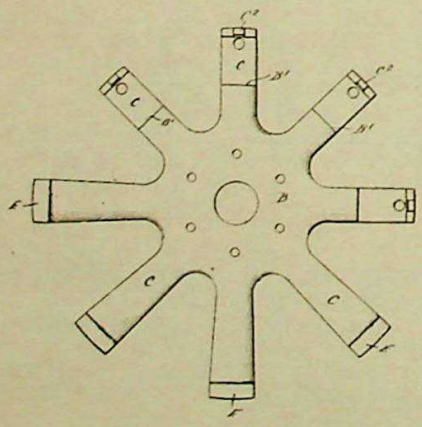
vertical movement of the tool beam before effecting movement of the gauge means when the tool beam and the gauge means are lifted.

2,330,284
LOCKING DEVICE
David Hart Hoffman, New York, N. Y.
Application October 28, 1941, Serial No. 416,797
2 Claims. (Cl. 151—25)



2. A device for locking a bolt, said device comprising a support having an opening formed therein for said bolt, and comprising a U-shaped end portion, a pivot carried by said U-shaped end portion, and a cam swingably mounted upon said pivot, said cam comprising a side surface extending to a comparatively greater distance from the center of said pivot, another side surface extending to a comparatively smaller distance from said center, and a substantially uniformly outwardly curved fluted bolt-engaging surface extending between said side surfaces, and resilient means engaging the first mentioned side surface of the cam to press said bolt-engaging surface against said bolt.

2,330,285
WHEEL BODY FOR DUAL DEMOUNTABLE RIMS
John W. Holt, Cleveland, Ohio, assignor, by mesne assignments, to Orrel A. Parker, Cleveland, Ohio
Application July 19, 1924, Serial No. 726,909
Renewed May 8, 1931
13 Claims. (Cl. 301—12)

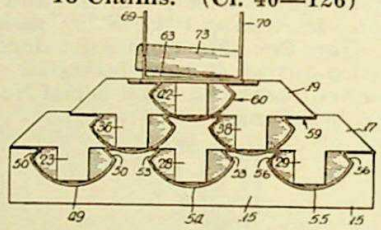


1. The combination with a wheel body having rim seats at definite points, of a plurality of demountable rims contacting with said rim seats, shoes having rim seats interposed between the wheel body and rims and contacting with said rims, said shoes having inwardly projecting bevel faced lugs and toggle levers engaging the said lugs and wheel body, and means for moving said levers to bind said rims upon said wheel body and shoes.

2,330,286
PROCESS FOR ACCELERATING THE HARDENING OF HARDENABLE RESINS AND NEW COMPOSITION OF MATTER
Herbert Hönel, Detroit, Mich., assignor, by mesne assignments, to Reichhold Chemicals, Inc., Detroit, Mich., a corporation of Delaware
No Drawing. Application November 10, 1939, Serial No. 303,918. In Germany February 19, 1939
10 Claims. (Cl. 260—34)

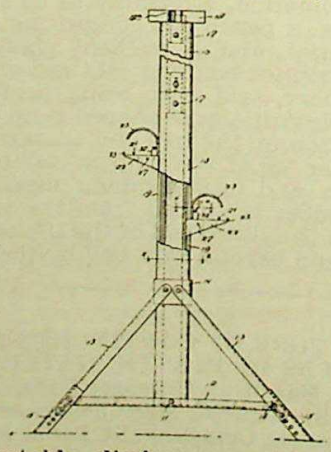
1. A process of accelerating the hardening of an alkylated resol which comprises adding to the resol a preformed acidic partial phosphoric ester obtained by interacting phosphorus pentoxide with castor oil, in a proportion insufficient to produce the triester.

2,330,287
COLLAPSIBLE CARDBOARD DISPLAY DEVICE
John V. Horr, North Tarrytown, N. Y., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application March 31, 1943, Serial No. 481,241
18 Claims. (Cl. 40—126)



1. In a collapsible cardboard display device, a flat element divided by spaced hinge lines into three panels adapted to define lower and upper steps and an intermediate riser when the device is set up, said element having spaced slits extending across the lower hinge line to define a strip between the slits which buckles forwardly when the device is set up, and a normally collapsed but expandable display piece secured to the riser over said strip so as to be pressed forwardly thereby into expanded condition.

2,330,288
PORTABLE CLIMBER
Earl H. Hurley, Emporium, Pa.
Application November 10, 1942, Serial No. 465,150
4 Claims. (Cl. 304—1)



1. A portable climber comprising a standard consisting of a plurality of sections adapted to be removably secured together, a base for the standard, oppositely disposed rails arranged

lengthwise on each section adapted to align with the rails of the next adjacent section when the sections are secured together to form tracks lengthwise of the standard, a stirrup slidable on each track, the said stirrups each consisting of a homogeneous housing formed to provide a foot plate and sides, flanges bent inward from the sides to slidably engage the track, an eccentric mounted between the sides adapted to frictionally engage the face of the track to prevent inadvertent slipping of the stirrup on the track and a spring actuated bolt through the foot plate connected to the eccentric adapted, when pressed by the foot to release the said eccentric, and means whereby the stirrup may be raised.

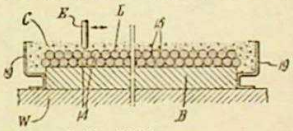
2,330,289

METHOD OF BUILDING UP SURFACES

James M. Keir, Bronxville, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio

Application October 18, 1941, Serial No. 415,593

10 Claims. (Cl. 219—10)



1. A method of building up a relatively large area of the surface of base metal with a relatively thick layer of another metal, which comprises progressively advancing a metal electrode over successive portions of said area; blanketing said portions and the adjacent end of said electrode with a granular welding composition; maintaining at least a portion of said composition in a molten and electrically conductive state at a temperature well above the melting point of said base metal and said electrode by passing from said electrode and through said composition to said base metal a current of sufficient value to melt for deposit on said surface successive portions of metal from the blanketed end of said electrode; and overcoming excessive melting of said base metal by first laying down, so as to be covered by said composition, a heat-absorbent layer of metal of a quantity sufficient to absorb substantially all of the heat that otherwise would melt said base metal, said heat-absorbent layer of metal thereby fusing beneath said composition with such melted portions of said electrode and with but a thin surface portion of said base metal.

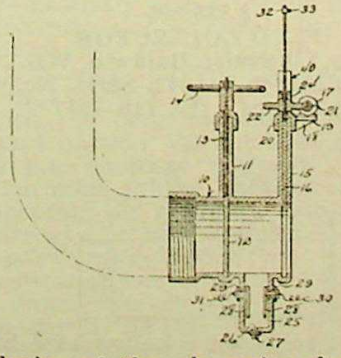
2,330,290

VALVE

Harold B. King, Sunbury, Pa.

Application March 14, 1941, Serial No. 383,453

3 Claims. (Cl. 137—144)



1. A device of the character described comprising a horizontally disposed submarine inductance tube having a sump forming chamber depending from the bottom portion so as to receive water entering the tube, a valve adapted to close the said tube and spaced from the outlet end thereof, an electrically operated valve mounted at the outlet end of the tube and spaced from the first mentioned valve, and spaced electrodes mounted within the sump having electrical connection with the electrically operated valve so as to close the circuit through the valve and automatically operate the electrically operated valve upon passage of water into the sump.

2,330,291

DYE INTERMEDIATE

James Emory Kirby, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 24, 1939, Serial No. 301,041

12 Claims. (Cl. 260—562)

1. A dye intermediate containing two monovalent nuclei capable of reacting to form a dye and of the formula X—Ar—, wherein X is joined to a nuclear aromatic carbon of the —Ar— radical and is selected from the group consisting of the hydroxyl and amino groups and —Ar— is a bivalent aromatic radical having a readily replaceable radical of the class consisting of hydrogen, halogen, sulfo, and carboxyl or nuclear aromatic carbon separated from X by an even number, from 2 to 4, of nuclear aromatic carbon atoms, said nuclei being joined by a saturated, wholly aliphatic synthetic chain having terminal amide linkages and, within the chain and apart from the terminal amide linkages, at least one amide linkage said amide linkages being joined by bivalent aliphatic hydrocarbon radicals.

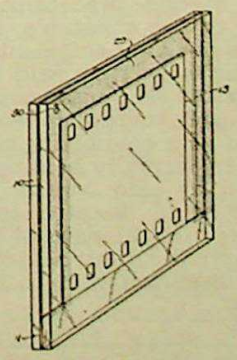
2,330,292

FILM HOLDER AND METHOD OF MAKING THE SAME

Milton Knight, Perrysburg, and John J. Hopfield, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application September 23, 1940, Serial No. 357,936

10 Claims. (Cl. 88—26)



1. A film holder, comprising two spaced, substantially parallel sheets of glass for receiving the film therebetween, and metallic means arranged entirely between the glass sheets along one edge thereof and adherent thereto for securing them together in properly spaced relation to provide an all glass-metal construction.

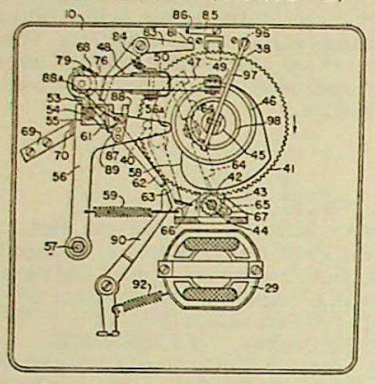
2,330,293

TRIPPING MECHANISM FOR RECORD-CHANGING APPARATUS

Arthur L. Knox, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware

Application May 15, 1941, Serial No. 393,600

10 Claims. (Cl. 274—1)



3. In a phonograph having a turntable and a movable pickup arm for cooperating with a record on the turntable, and initiating mechanism comprising a spring element, a member frictionally associated with said pickup arm and connected thereto by said spring element, a connecting member frictionally associated with the pickup arm and being movable thereby a first predetermined distance during each revolution of the turntable while said pickup arm is tracking the playing groove of a record on the turntable and more than said first predetermined distance during each revolution of the turntable while said pickup arm is tracking the tripping groove of the record on the turntable, a freely movable element responsive to the movement of said connecting member upon movement of the latter by said pickup arm; a control member movable by said freely movable element, an extension rotatable with said turntable for moving said control member, said freely movable element and said connecting means intermittently a corresponding first predetermined distance in the opposite direction relative to the movement imparted thereto by said pickup arm, a projection on said connecting means adapted to engage and move said member in response to the movement imparted to said connecting means by said extension to create a tension in said spring element after said pickup arm reaches a second predetermined distance from the center of the turntable, the tension in said spring element being sufficient to move said connecting means more than said first predetermined distance after said extension releases said control member and therewith said freely movable element and said connecting means, and an initiating member normally held out of the path of said extension by said control member, said control member being adapted to release said initiating member into the path of said extension by a movement greater than said first predetermined distance imparted thereto by said freely movable element.

2,330,294

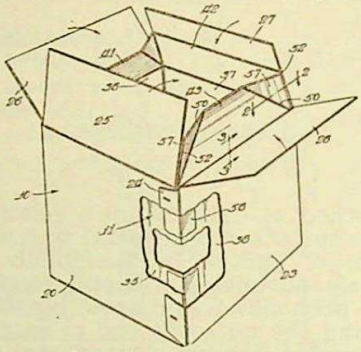
CONTAINER

James P. H. Leavitt, Wayne, and Earle W. Wells, Philadelphia, Pa., assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware

Application November 6, 1940, Serial No. 364,476

2 Claims. (Cl. 229—14)

1. A container formed of flexible sheet material having four interconnected side walls adapted to be collapsed to a flat condition, means for closing the ends of the container, said closing means for at least one end comprising closure flaps carried by at least two opposite side walls, a lining element for the container formed from a single blank of double face corrugated board comprising liner sheets secured on opposite sides of a corrugated sheet, said lining element comprising four hingedly related walls comparable in lateral extent to and secured in position relative to the interior faces of the container side walls, the open end of the lining element adjacent the closure flaps on the container walls being provided with extended portions terminating at an appreciable distance outwardly along the container closure flaps beyond the line of juncture of said flaps with their respective walls, said extended portions being integrally connected to each other at a plurality of corners of the lining element, two of the extended portions each



having converging fold lines therein extending from the upper corners of the lining element diagonally outwardly to its free edge, whereby bellows corner portions are provided adapting the extended portions of the lining element at the corners thereof to be folded into overlapping relation in a plane substantially parallel to the plane defined by the edges of the container side walls, the lining element having lines of fold therein defining the extended portions from the lining element side walls, the hinge lines at the integrally connected corners of the lining element being provided by forming cut scores along said corners in which the cuts are directed inwardly through the outer liner sheet and terminate adjacent the surface of the inner liner sheet, the converging fold lines in the lining element being formed by cut scores extending outwardly through the inner liner sheet and through the corrugated sheet, whereby folding of the bellows corner portions in flat condition between the downfolded extended portions of the lining element is facilitated.

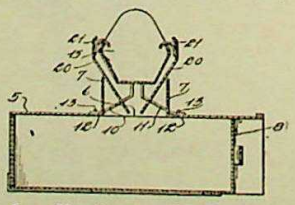
2,330,295

FEED COLLECTOR

Roy Lindquist, Baldwin, Wis.

Application March 7, 1942, Serial No. 433,781

3 Claims. (Cl. 119—61)



1. In a feed collector, a hollow base having an opening in its top, upstanding flanges on opposed edges of the opening extending transversely of

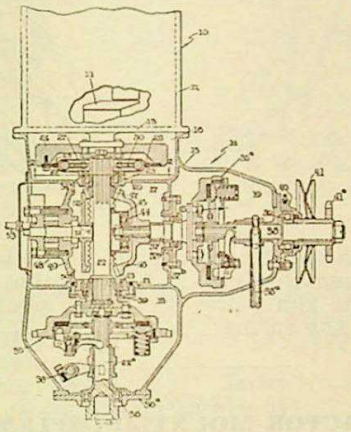
the base, a trough supported above the opening, and deflecting plates having hangers engaging the edges of the trough for directing escaping feed to the interior of the base, the said deflecting plates extending downwardly between the said flanges.

2,330,296

POWER TRANSMITTING DEVICE

Gustave E. Lundberg, Riverside, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application December 18, 1941, Serial No. 423,485
2 Claims. (Cl. 74—389)



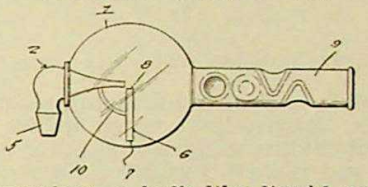
1. In a power transmission for use upon a motor-driven vehicle having propelling means and equipped with an auxiliary means drivable from the vehicle motor, the combination of a bell housing comprising integrally-formed front, intermediate, rear, and side compartments of which the intermediate compartment is separated from the front and rear compartments by front and back and transverse walls respectively and separated from the side compartment by a side wall, all of said walls also being integral parts of such housing and having bearing openings therein, said rear and side compartments having back and side clutch-shaft-receiving wall openings in opposed coaxial relation respectively with the back and side wall openings, a coupling shaft extending axially through the intermediate compartment and through the openings in said front and back transverse walls wherein it is journaled to dispose front and back end portions respectively in the front and back compartments, means in the front compartment for connecting the front end portion of said shaft to the motor for rotation therefrom, a power take-off shaft extending through and journaled in the side wall opening to present inner and outer end portions respectively within the intermediate and side compartments, a gear train in the intermediate compartment for driving the power take-off shaft from said coupling shaft, a main clutch shaft extending across the back compartment coaxially with the coupling shaft and having a forward end portion journaled in piloted relation with said coupling shaft and a rearward portion journaled in the back clutch-shaft-receiving opening, an auxiliary clutch shaft extending across the side compartment coaxially with the power take-off shaft and having an inner end portion journaled in piloted relation with said power take-off shaft and an outer portion journaled in the side clutch-shaft-receiving opening, said main and auxiliary clutch shafts being drivable to respectively drive the vehicle propelling means and the auxiliary drivable means, a main clutch in the rear compartment for releasably drivingly connecting said coupling shaft with the main clutch shaft, and an auxiliary clutch in said side compartment for releasably drivingly connecting said power take-off shaft with the drivable auxiliary means.

2,330,297

VAPORIZER

Wallace M. V. Lynch, Upper Darby, Pa.

Application April 27, 1942, Serial No. 440,699
1 Claim. (Cl. 261—78)



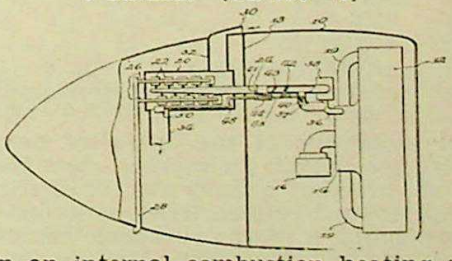
In a vaporizer, a bulb-like liquid container, a discharge tube extending from one side of said container, means to vaporize liquid in the container and inject the vapor into said tube and force the same therethrough, and baffle devices in said tube for breaking up the liquid contents of the vapor passing through said tube, said means comprising a nozzle projecting radially into said container from the side thereof opposite the discharge tube and in axial alignment with said tube, a small diameter radial siphon tube in said container in the same plane as said nozzle and extending at a right angle to the axis of the nozzle, and an arm connecting said nozzle and said siphon tube, said nozzle and tube having adjacent ends spaced apart.

2,330,298

HEATING SYSTEM

Henry J. De N. McCollum, Chicago, Ill.

Application January 9, 1941, Serial No. 373,752
7 Claims. (Cl. 237—2)



1. In an internal combustion heating system for airplanes and similar conveyances having an internal combustion engine burning a combustible mixture, the combination of an internal combustion heater, means for forcing air through said heater into the space to be heated, a supercharger for supercharging the engine, a pump having an inlet and an outlet, a passage for supplying combustible mixture from said supercharger to said inlet, a passage for supplying combustible mixture from said outlet to said heater and having a valve therein for regulating the rate of flow of combustible mixture therethrough, a by-pass conduit connecting said outlet and inlet and having a valve therein for regulating the rate of flow therethrough, means responsive to the temperature of the air passing from said heater to operate said valves to decrease the rate of flow in the passage supplying combustible mixture to said heater and to increase the rate of flow in said by-pass when the temperature of the heated air rises above the desired value, and to increase and decrease said rates of flow, respectively, when the temperature of said air falls below said value.

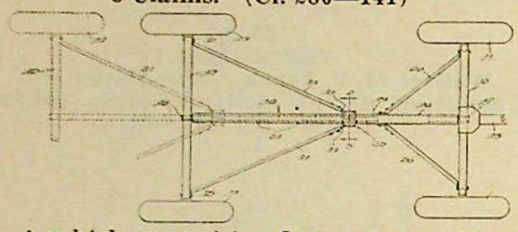
2,330,299

VEHICLE

Gordon G. McNamara, Jr., Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application February 12, 1942, Serial No. 430,666

8 Claims. (Cl. 280—141)



1. A vehicle comprising first and second transverse axles; longitudinal reach means between said axles including longitudinal inner and outer, telescopic and relatively angularly movable reach members; means securing the outer reach member to the first axle; means securing the inner reach member to the second axle; a collar carried by the outer reach member for adjustment longitudinally of said reach member; means for securing said collar and outer reach member against relative longitudinal movement at selectable points along said reach member; means associated with said collar for angular movement with respect to the outer reach member; and means connecting said means to the second axle.

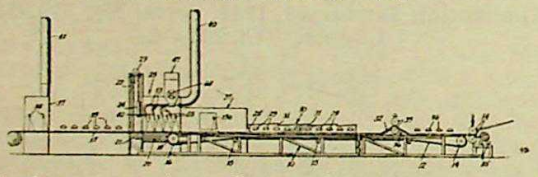
2,330,300

APPARATUS FOR PRODUCING COHERENT MATERIALS

James A. MacDonald, Glendale, Calif., assignor to John U. Birnie, Los Angeles, Calif.

Application May 16, 1941, Serial No. 393,792

11 Claims. (Cl. 91—45)



1. An apparatus of the character described, including a conveyor for moving sheet material in a given direction, a spray gun for ejecting one substance toward said material, a second spray gun for ejecting a second substance toward said material, said guns both being angled only in the direction of movement of said conveyor and disposed at an angle to each other so that the streams issuing therefrom intersect and co-mingle to produce a deposit of a uniform mixture of said substances on said material.

2,330,301

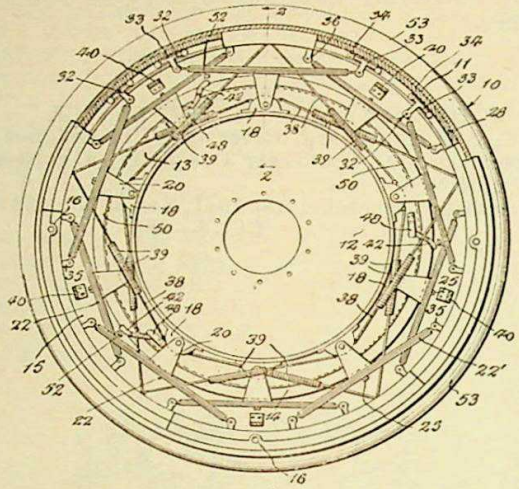
RESILIENT WHEEL

Fred W. Mills, Mena, Ark.

Application January 20, 1943, Serial No. 473,007

4 Claims. (Cl. 152—38)

1. In a resilient wheel, a rim having inwardly extended closure plates on the sides thereof, a hub positioned axially within the rim, said hub having outwardly disposed side walls in slidable, abutting engagement with respective closure plates, said side walls defining a circumscribing channel, lugs fixed within the channel of the hub and spaced equally therearound, a spring mounting block pivotally mounted upon each lug, a leaf spring fixed to each block medially of its length and presenting the free ends in the direction of the rim, race-ways mounted upon the interior of the rim and aligned with the free ends of the springs, roller carriages mounted within the race-ways, each roller carriage having means for connection with respective spring ends and



spring tensioned cable being connected between the rim and the hub, the connection of the cables to the rim being on a line medially of the length of the springs.

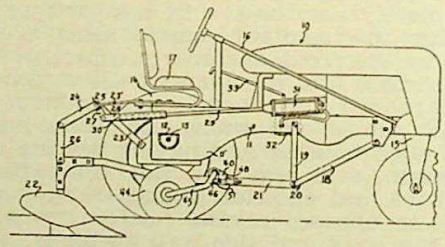
2,330,302

TRACTOR-MOUNTED IMPLEMENT

James Morkoski, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application April 18, 1941, Serial No. 389,216

5 Claims. (Cl. 97—189)



1. A self-contained gauging attachment adapted for connection to a plow beam, comprising a gauging element, a bracket adapted for attachment to a plow beam, means for connecting the gauging element to the bracket for vertical movement with respect thereto, and lost-motion means connected between the element connecting means and the bracket to permit a certain amount of upward movement of the plow beam prior to vertical movement of the gauging element.

2,330,303

POWER LIFT DEVICE

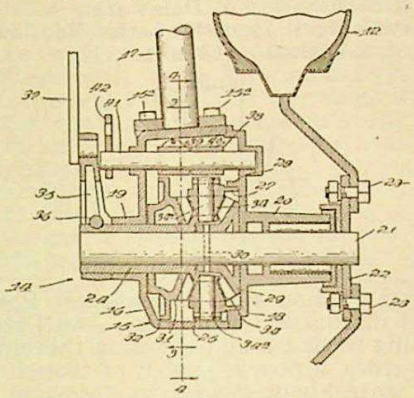
James Morkoski, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application January 13, 1942, Serial No. 426,568

15 Claims. (Cl. 97—73)

1. A power-lift device comprising, in combination, a driver shaft, a driven shaft having at least two engaging portions, a gear secured to the driver shaft, a gear journaled on the driven shaft and having a plurality of engaging portions, gears carried by the driven shaft and adapted to engage said gear on the driver shaft and the gear journaled on the driven shaft, and means normally

engageable with one of the engageable portions of the driven shaft for holding said shaft from rotating and upon disengagement therefrom engageable with one of the engaging portions of said



gear journaled on the driven shaft for driving the driven shaft from the rotation of the driver shaft until the means engages the other engaging portion of the driven shaft.

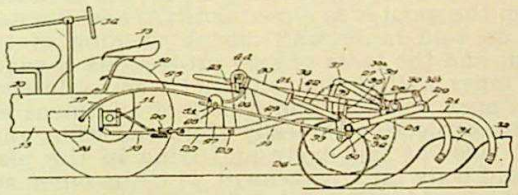
2,330,304

AGRICULTURAL IMPLEMENT

Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application April 11, 1942, Serial No. 438,549

7 Claims. (Cl. 97—50)



1. In combination, a tractor, a trail-behind implement including a tool-supporting frame having a working tool thereon, a draft frame connected to the tool-supporting frame for vertical buckling movement therewith and connected to the tractor to react thereagainst when the buckling movement takes place, a wheel structure connected to the tool-supporting frame for adjustment with respect thereto and having wheels located forwardly of the working tool, means for adjusting the wheel structure with respect to the tool-supporting frame, and means responsive to the adjusting means for positively buckling downwardly the draft frame and the tool-supporting frame about its wheels whereby the working tool will be thrown upwardly a distance beyond that which it would ordinarily be raised by movement of the wheel structure alone.

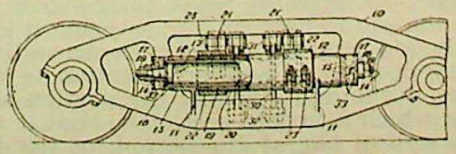
2,330,305

TRUCK BOLSTER SUSPENSION MEANS

Henry E. Muchnic, Atchison, Kans., assignor to The Locomotive Finished Material Company, Atchison, Kans., a corporation of Kansas

Application March 27, 1940, Serial No. 326,197

11 Claims. (Cl. 105—190)



1. Means of the character described comprising, in combination with the side frames of a car truck and a truck bolster, members rotatably mounted on the truck side frames and disposed lengthwise thereof; lever members disposed inwardly from the truck side frames with the outer ends supported by said first mentioned members so as to permit their inner ends to swing vertically; torsion providing means intermediate outer ends of the lever members and said first mentioned members whereby the swinging movements of the inner ends of the lever members are yieldingly resisted; means whereby the first mentioned members are held against rotation and means intermediate of the inner ends of the lever members on both sides of the truck and the bolster whereby the latter is yieldingly suspended in place.

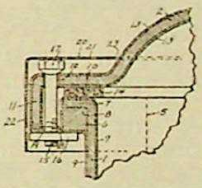
2,330,306

ENAMELED TANK

Chalmer E. Murphy, Cleveland Heights, Ohio, assignor to Porcelain Steels, Inc., Cleveland, Ohio, a corporation of Ohio

Application November 25, 1940, Serial No. 367,075

1 Claim. (Cl. 220—55)



In a tank construction a tubular tank body, a ring surrounding the body adjacent its end and welded thereto, a flange on the end of the body extending outwardly radially over the ring, a head having an annular substantially planar portion opposite the flange, a compressibly yieldable gasket between the annular head portion and the flange, a skirt on the head surrounding the flange and ring and radially spaced therefrom, a circular series of bridging elements bridging the ring and the skirt, and a circular series of threaded bolts disposed in the space between the ring and the skirt and projected through perforations in the planar portion and the bridging elements and provided with heads and nuts to exert a clamping action on the bridging elements and planar portion to clamp the gasket between the head and the flange, a coat of vitreous enamel on the planar portion, and the skirt being sufficiently rigid to prevent bending of the planar portion and cracking of the enamel coat by the clamping action at the bolt perforations therein.

2,330,307

PROCESS OF SMELTING ANTIMONY ORE

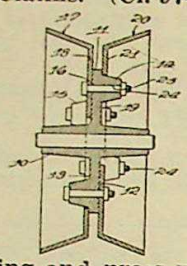
Charles O'Keefe, Nogales, Ariz.

No Drawing. Application March 14, 1942, Serial No. 434,775

4 Claims. (Cl. 75—69)

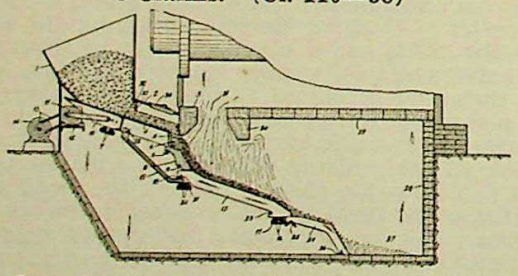
1. The method of producing antimony from antimony trioxide which comprises mixing antimony trioxide with carbon, forming a crucible of hot slag composed of dehydrated sodium sulphate and sodium chloride, filling said crucible with the mixture of carbon and antimony trioxide and sealing the filled crucible with the hot slag, then heating the crucible and its contents, until the crucible melts to form a flux which reacts with the impurities.

2,330,308
COVERING WHEEL FOR PLANTING EQUIPMENT
John W. Orendorff, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application February 13, 1942, Serial No. 430,797
3 Claims. (Cl. 97—56)



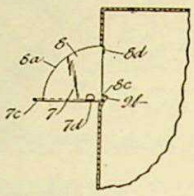
1. In a covering and press wheel for planting equipment, a hub element having a radially extending web portion, circumferentially spaced attaching portions on opposite sides of the web portion, axially extending projections provided at each side of the web portion to serve as other attaching portions and alternately disposed with respect to the circumferentially spaced attaching portions, the said projections on one side being also alternately disposed with respect to the projections on the other side of the web portion, the said projections and their alined attaching portions having an opening therethrough, a pair of wheel elements respectively having openings adapted to register with either the openings in the attaching portions or the openings in the projections, and fastening bolts for securing the wheel elements to either the attaching portions or to the projections by passage through alined openings of the hub and wheel elements, whereby the same fastening bolts may be used in either setting of the wheel elements.

2,330,309
STOKER
Erle S. Ormsby, St. Louis, Mo.
Application August 2, 1940, Serial No. 350,020
3 Claims. (Cl. 110—38)



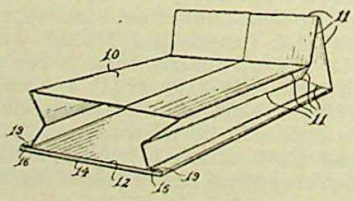
1. In a furnace, an arch member, a stationary inclined grate rigidly supported below and cooperating with said arch member to form a fuel inlet, a ram inclining downwardly and inwardly for movement into said inlet to deliver fuel through said inlet onto said grate, mechanism for operating said ram to deliver fuel through said inlet and onto said grate inwardly beyond said inlet, links pivotally attached at their outer ends to said ram outwardly beyond said grate for inward and outward movement by said ram, means for supporting the inner ends of said links, a transverse bar attached to said links below said grate, an inclined grate below and inwardly beyond said stationary grate arranged to receive fuel from said stationary grate and having its outer end supported by said bar for operation thereby during operation of said ram, and means for supporting the inner end of said last named grate.

2,330,310
POURING SPOUT
Alexander Parsons, Minneapolis, Minn., assignor to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware
Application April 19, 1941, Serial No. 389,408
2 Claims. (Cl. 221—11)



1. In combination with a container having a four-sided discharge opening in a wall thereof, said opening having a lip extending therein from one of its sides, a pouring spout of trough shape having a central body shaped to close said opening and provided with sector-shaped side wings, the lower edge of said body being straight and constituting the hinge axis of said spout, said lower edge engaging and fulcruming upon the lip in said discharge opening, the curved edges of said wings being substantially concentric with the hinge axis of said spout, said wings on their edges which extend from the hinged portion of said spout having aligned, substantially perpendicular projections extending outwardly and having edges disposed substantially in alignment with said lower edge of said central body, said edges engaging the inner wall of the container when the spout is in closed position and fulcruming on said inner wall during opening of said spout and the faces of said projections engaging the inner wall of the container when said spout is in open position, and a pair of abutment elements projecting laterally from the wing adjacent sides of said body and lying in the plane of said body for engagement with the outer surfaces of said wall in the closed position of said spout.

2,330,311
COLLAPSIBLE CONTAINER AND METHOD OF PRODUCING IT
Lewis B. Pierce, Winthrop, Mass.
Application June 16, 1941, Serial No. 398,228
5 Claims. (Cl. 93—1)



1. The method of producing collapsible containers which comprises making a bag in the form and having the characteristics of a conventional paper bag having a bottom and four side walls, foldable to flatness; inserting in the bag a stiffener sheet so that it overlies and is coextensive with one side wall of the bag, and securing the stiffener, along two of its opposite side edges, to adjacent walls of the bag; collapsing the bag to flatness, and severing it longitudinally and centrally of the stiffened wall; followed by opening of a severed section to tray-container form, and swinging the portion of the stiffener which is in that section so that it overlies the wall of bag at the bottom of the tray-container.

3. A collapsible container, comprising a rectangular tray-container having only a bottom wall, two side walls and one end wall, of flexible sheet material, and having fold lines on which the bottom wall and the end wall and one side wall are foldable upon the other side wall to collapse the container to flatness, each side wall and the bottom wall being approximately equal in area; combined with a stiffener sheet within the container having area approximately equal to the area of a said side wall and also approximately equal to the area of said bottom wall secured along one side edge to an adjacent wall of the conainer; said stiffener being swingable about its said edge securement for overlying the said side wall upon which the other walls are folded when the container is collapsed, and for overlying the bottom wall when the container is opened to tray form.

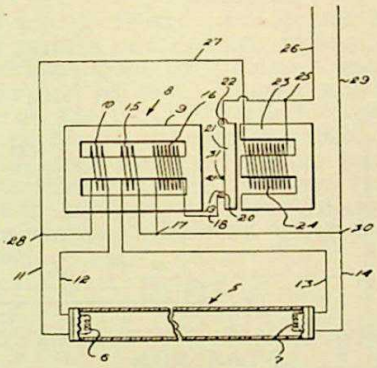
2,330,312

STARTING AND OPERATING FLUORESCENT AND MERCURY ARC LAMPS

Ben Raney, Jr., Linton, Ind.

Application February 7, 1941, Serial No. 377,933

1 Claim. (Cl. 176—124)



In apparatus for operatively energizing a gas or vapor arc lamp of the type involving a pair of electrodes which ionize the gas between them, a unit consisting of a closed core transformer having on its middle leg a pair of secondary windings individually connected to the corresponding electrodes of the lamp and a primary winding, a main line current supply having one side thereof connected to one side of one of the electrodes, to one side of said primary winding and to one side of the corresponding secondary winding, said main line having the remaining side thereof connected to the remaining side of said primary winding and with the remaining electrode and with the secondary winding related thereto, a choke coil connected between said remaining side of the main line and the last-mentioned electrode and secondary winding, a conductive armature magnetically related to said choke coil and normally retracted therefrom, a stationary contact point engaged by said armature in its retracted position, said armature and said contact point being electrically connected in said remaining side of the main line at a point between said secondary winding and said choke coil, wherein said choke coil comprises an E-core with the coil wound on the middle leg thereof, the middle leg of the transformer core and the middle leg of said choke coil core being substantially aligned and located in close proximity to each other with said armature positioned between the two cores and extending across the terminals of the legs thereof.

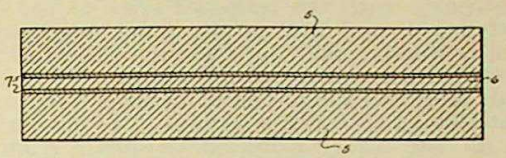
2,330,313

LAMINATED SAFETY GLASS

Joseph D. Ryan and George B. Watkins, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application August 7, 1940, Serial No. 351,694

2 Claims. (Cl. 154—2.75)



2. Laminated safety glass comprising two sheets of glass and an interposed layer of ethyl cellulose plastic, whose ethoxy content is 47% to 48%, bonded to said glass sheets with an adhesive containing ethyl cellulose whose ethoxy content is from 35% to 45%.

2,330,314

MANUFACTURE OF NONWOVEN FABRICS

George L. Schwartz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 23, 1940, Serial No. 353,839

8 Claims. (Cl. 117—140)

1. The process for the preparation of a soft, porous, felt-like, non-woven web of fibers having a high wet strength from a soft, porous, felt-like, non-woven web of fibers of low wet strength which comprises applying to the said low wet strength non-woven web of fibers polyvinyl alcohol having an intrinsic viscosity of 4 to 100 centipoises as a 4% aqueous solution at 25° C. and having a saponification value below 100, and then impregnating the web with an aqueous solution of at least 0.5 normal concentration of a compound of the class consisting of alkali metal hydroxides and basic reacting alkali metal salts.

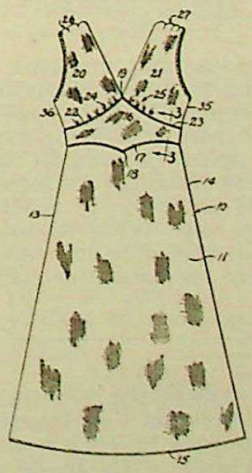
2,330,315

GOWN

Joseph Henry Schweich, Clayton, Mo.

Application July 26, 1941, Serial No. 404,127

1 Claim. (Cl. 2—73)



In a gown made of woven material, a skirt portion comprising two panels, one a front panel and the other a rear panel, said panels being generally of truncated sector shape, cut on the straight at their center front and rear, and extending from the waist down, to have support from the waist, and being seamed together up the sides of the garment and seam free in the

rear part thereof, the seams joining substantially corresponding cuts of the material in the connected panels, the upper edge of the skirt panel being indented to provide lateral yield thereto, an insert cut on the bias, disposed above the front skirt panel, extending laterally to the sides of the garment, having a lower edge convex to coincide with the indented edge of the front skirt panel, and having an upper edge sloping from a middle part downwardly and outwardly on each side, breast panels, one secured to each upper sloping edge of the front insert, the breast panels being cut on the straight, two back panels cut on the bias, extending upwardly from the waist portion of the garment to the shoulder blade area, said back panels being seamed at their bottom edges to the upper edge of the back skirt panel, joined at their lateral edges in the middle of the back, and joined to the lateral edges of the front insert and breast panels at the sides of the garment, and shoulder straps connecting the breast portions with the rear upper panels.

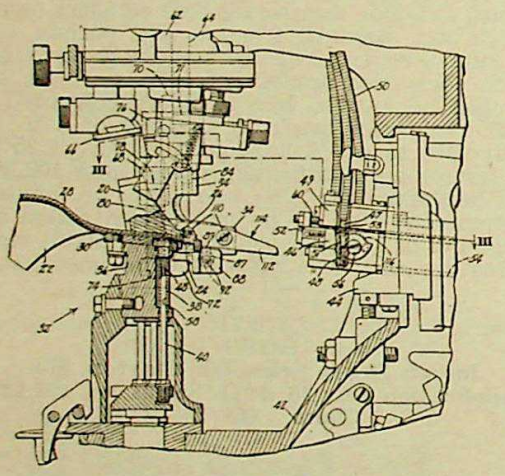
2,330,316

HEEL-ATTACHING MACHINE

John F. Standish, Winthrop, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application April 16, 1942, Serial No. 439,201

13 Claims. (Cl. 1—32)



1. In a heel-attaching machine, a shoe support, transferring means movable to deliver fastenings to the support, and a gage co-operating with the support, said gage being movable heightwise of a shoe upon the support in response to movement of said transferring means to displace said gage out of the path of movement of said means, said gage also being mounted for movement laterally of the shoe into an idle position out of the path of movement of said transferring means.

2,330,317

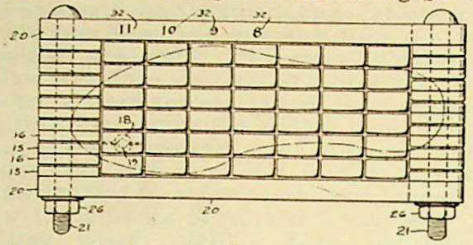
FOOT CONTOUR TEMPLATE

Howard R. Stewart, Los Angeles, Calif.

Application September 21, 1942, Serial No. 459,216

2 Claims. (Cl. 33—3)

1. In a foot contour template the combination of a pair of side frame bars; a plurality of pairs of bars assembled between said side bars; a plurality of rectangular receptacles, each one located partly in each of any two adjacent bars; a plurality of stops located in said receptacles and vertically adjustable in same; plungers secured to the underside of said stops; springs in said receptacles and under said stops; flanges for limiting the upward movement of said stops and plungers, and means for locking and unlocking said bars;



plungers and stops in the contour position, said means including bolts extending therethrough all of said bars and nuts for tightening same.

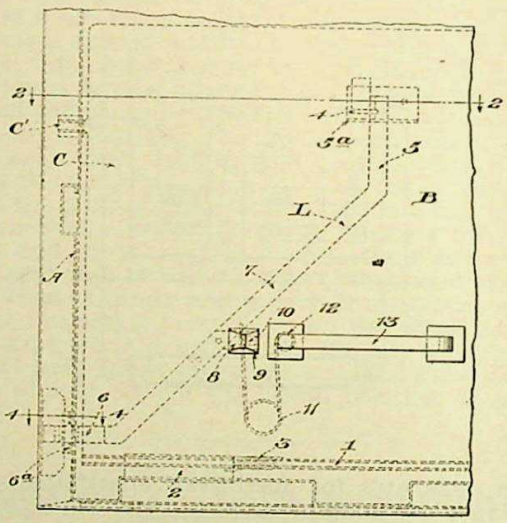
2,330,318

LATCH-CONTROLLED COMPRESSOR

Clarence W. Straubel, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio

Application October 18, 1941, Serial No. 415,611

7 Claims. (Cl. 45—2)



1. In a drawer for filing cabinets, a drawer head, a compressor plate pivotally supported in the drawer adjacent the inner side of the drawer head, keeper means at the outer face of the compressor plate, a horizontally shiftable spring controlled latch bolt accessible to the keeper means from the inner face of the drawer head, and means on the drawer head and cabinet for automatically releasing said latch bolt when the drawer is moved to fully closed position to permit the compressor plate to move inwardly of the drawer.

2,330,319

VULCANIZER

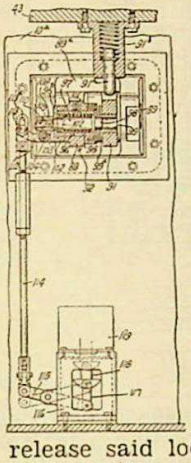
Henning T. Tornberg, Akron, Ohio, assignor to National Rubber Machinery Co., Akron, Ohio, a corporation of Ohio

Application March 14, 1941, Serial No. 383,315

2 Claims. (Cl. 18—17)

2. An article-forming press of the class described comprising a relatively fixed mold member and a relatively movable mold member for registry therewith, power means for moving said movable member toward and from registry with said fixed member, article ejecting means in association with said fixed mold member, a first element shiftable to operate said ejecting means

for jecting an article, a second element adapted to shift with said first element and independently thereof, releasable means for locking said first and second elements together when closing the mold to be shiftable as a unit, means operable by said power means during opening of the mold to shift said second element and through said locking means to shift said first element to operate said ejecting means for stripping an article from said fixed mold member, and means oper-



able at will to release said locking means and thereby render said ejecting means inoperative, said locking means comprising a spring-pressed latch on one of said elements and a recessed portion on the other element for receiving said latch, said latch and recessed portion having cooperating guide surfaces whereby said latch will be automatically guided into said recessed portion when said elements are relatively moved into association with each other upon closing the mold.

2,330,320

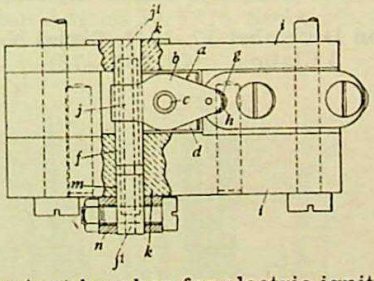
CONTACT BREAKER FOR IGNITION APPARATUS

Ernest Ansley Watson, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England

Application October 27, 1942, Serial No. 463,531

In Great Britain October 22, 1941

3 Claims. (Cl. 200—30)



1. A contact breaker for electric ignition apparatus, comprising the combination of a small and light contact-carrying lever, and a torsion spring in the form of a straight wire arranged coaxially with the lever pivot.

2,330,321

ROTARY PRINTING PRESS

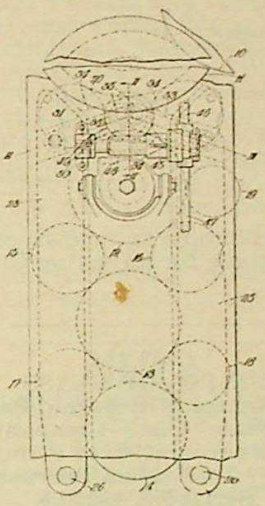
William Arnold Whitehead, Preston, England, assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application January 7, 1942, Serial No. 425,878

In Great Britain January 13, 1941

4 Claims. (Cl. 101—351)

1. Rotary printing press comprising in combination a press frame, distributing drums supported in said frame, a plurality of distributing and forme rollers on opposite sides of said drums, frames pivotally mounted on said press frame and



supporting said rollers, a drive shaft, links connected to said frames and coupled eccentrically to said shaft, and a hydraulic motor for actuating said shaft.

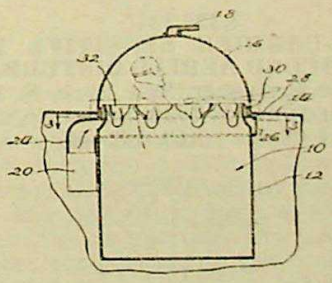
2,330,322

HEATING APPARATUS

Lynn A. Williams, Jr., Northfield, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application August 3, 1942, Serial No. 453,347

5 Claims. (Cl. 98—1)



1. In an aircraft turret having a movable transparent dome and having a fixed turret compartment wall, the combination of means for supplying a stream of heated air, a manifold connected to receive heat from said means and extending around the upper edge of the turret compartment, said manifold having a portion defining with the upper edge of the turret compartment wall a port for the discharge of a relatively thin sheet of heated air along the lower inner edge surface of the dome.

2,330,323

FOUNTAIN BRUSH

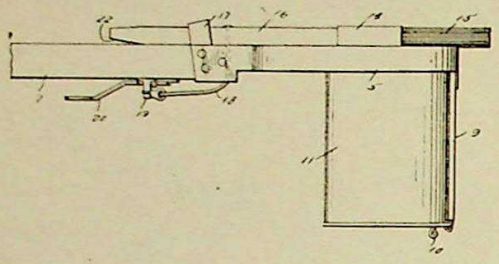
Ira Jackson Woodford, Philippi, W. Va.

Application October 23, 1942, Serial No. 463,136

3 Claims. (Cl. 15—124)

1. A paint spreading device comprising in combination a can clamping member, a handle for the clamping member, a brush including a bristle portion positioned against the top of the can and with the end of the bristles projecting laterally beyond the side of the can and said brush including a handle portion extending parallel with re-

spect to said first-named handle, means pivotally connecting the inner end of the brush handle to



the first-named handle and means carried by said first-named handle for adjusting the brush relative to the can.

2,330,324

FINING OF GLASS

Frederick W. Adams, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application February 25, 1942, Serial No. 432,269

1 Claim. (Cl. 49—77)

A process of forming substantially clear glass having a very low content of bubbles of gaseous material, such as water vapor, carbon dioxide, sulphur dioxide and the like, which process comprises first bubbling carbon monoxide through molten glass containing the gaseous substances as "seed" until most of the gases, including the water vapor, are removed, then bubbling an oxidizing gas through a portion of the glass, then admixing the latter portion of glass with the portion which has not been treated with the oxidizing gas.

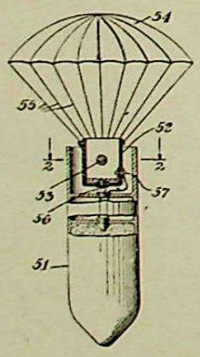
2,330,325

EXPLOSIVE-CARRIER SENSITIVE TO AIRPLANE INDUCED AERIAL DISTURBANCES

George F. Archer, New York, N. Y.

Application June 19, 1939, Serial No. 279,796

1 Claim. (Cl. 102—4)



A drop bomb comprising a body part, an explosive charge therein, means including an electric circuit means and a detonator associated with the explosive charge to detonate the same, a container pivoted to said body part, a parachute connected to said container normally to hold said container in a stable condition, a conducting fluid medium in said container, contact means on said container forming part of said electric circuit means, said fluid medium serving to complete the electric circuit, including the detonator when the parachute is tilted by fugitive air waves caused by passing objects and the container tilted out of stable condition whereby the said charge will be exploded.

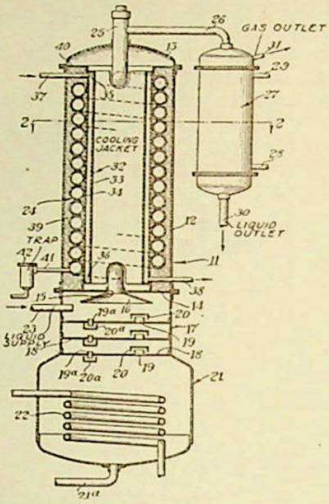
2,330,326

METHOD OF FRACTIONATING VAPORS

Florian V. Atkeson, Pasadena, Calif.

Application May 10, 1941, Serial No. 392,932

4 Claims. (Cl. 257—51)



4. A process of selectively condensing a liquid having a narrow boiling point range from a mixture of gases containing said liquid in its gaseous phase, said mixture having a wider boiling point range than said liquid, which comprises: passing said mixture of gases into the lower end of a closed passage of helical contour so disposed that any liquid condensed in said passage flows by gravity to the lower end thereof, and the mixture of gases rises through the passage; and cooling a portion of one vertical wall of the helical passage to a lower temperature than the remainder of said wall and to a sufficient degree to cause condensation from said mixture of the desired liquid, that portion of the mixture not so condensed passing while still in gaseous form out of said passage.

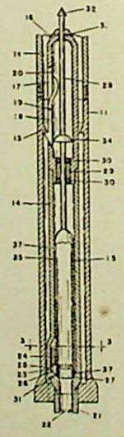
2,330,327

PRESSURE CORE TAKER

Earl Babcock, Duncan, Okla., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.

Application December 17, 1941, Serial No. 423,351

3 Claims. (Cl. 255—72)



1. A wire line operated pressure core taker for oil well use, comprising an outer pressure cylinder having means for latching the same in drill pipe having a bit thereon, a single valve associated with said pressure cylinder for controlling

the flow of fluid from said outer cylinder, an inner, core receiving and lifting cylinder fitted into said outer cylinder and normally occupying such relative position with respect thereto as to hold said valve open, releasable means for holding the inner and outer cylinders in said normal relative position so that the core taker may be dropped down through the drill pipe to seat in the drill, wire line operated means for lifting said inner cylinder upwardly into said outer cylinder to release said valve and for releasing said latching means, the arrangement being such that the valve is released before said outer cylinder is unlatched.

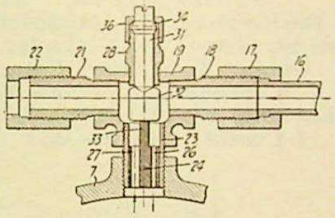
2,330,328

APPARATUS FOR DISPENSING HYPOCHLORITES

Walter S. Bachman, Los Angeles, Calif.

Application March 5, 1942, Serial No. 433,507

5 Claims. (Cl. 210—36)



1. In a device of the character described, a four armed cross member having two opposite arms therein providing a fluid inlet and an outlet, a vane supported from the third arm between said inlet and outlet arms and rotatable therein to vary the flow directly through said cross, and a plug mounted in the fourth arm and having a first passage longitudinally therein adjacent said inlet and a second passage longitudinally therein and adjacent said outlet, said first passage being of a materially smaller diameter than the second passage.

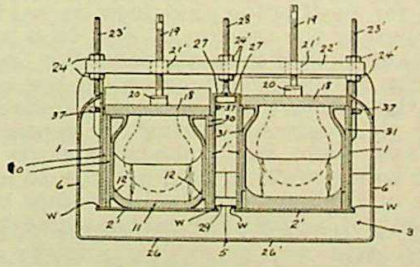
2,330,329

SECTIONAL MOLD FOR TIRE CASINGS

Harold L. Baker, Oakland, Calif.

Application August 30, 1940, Serial No. 354,811

4 Claims. (Cl. 18—18)



3. A cavity vulcanizer comprising a pair of channels of sheet steel disposed one within the other and with their adjacent opposite sides, and the bottoms thereof, respectively, in spaced opposed relation providing the walls of a generally channel shaped steam chamber; supporting legs for said channels comprising extensions formed integrally with the side walls of the outer channel of said pair, the bottom wall of said last mentioned channel being welded along two opposite side edges thereof to said last mentioned side walls, and welded at the opposite end edges to the corresponding end edges of the bottom wall of the inner channel of said pair; the marginal portions of the side walls of the outer channel of said pair extending angularly inwardly toward each other along the end and upper edges of said latter channel and welded along said edges to the corresponding marginal portions of the side walls of the inner channel of said pair; a top plate in the open side of the inner channel of said pair extending longitudinally of said channel and movable toward and away from the bottom of said inner channel; means carried by the side walls of the inner channel of said pair supporting said top plate for said movement including a cross bar removably secured at its ends to the side walls of said inner channel and a vertical screw threadedly extending through said cross bar and swivelly secured at its lower end to said top plate.

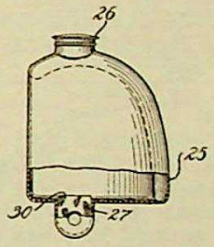
2,330,330

TABBED RUBBER ARTICLE AND METHOD FOR MAKING THE SAME

Carl L. Beal and George L. Winder, Cuyahoga Falls, Ohio, assignors to American Anode Inc., Akron, Ohio, a corporation of Delaware

Application November 16, 1939, Serial No. 304,798

22 Claims. (Cl. 18—58)



14. A method of making a hollow rubber article having a solid tab-like extension thereon, which comprises providing a deposition base adapted to form the desired hollow article, detachably associating in outwardly projecting relation with the deposition base a solid, tab-like member having an aperture therein, applying a liquid rubber composition to the base and to the entire exposed surface of the tab-like member including the surface in the bore of the aperture and producing thereon a continuous seamless coating of rubber, enclosing and incorporating the tab-like member as a substantially unitary part of the article, said coating being insufficient in thickness to fill the aperture, and removing the article including the tab-like member from the deposition base.

2,330,331

CONTROL TRACK RECORDING AND SYNCHRONIZING SYSTEM

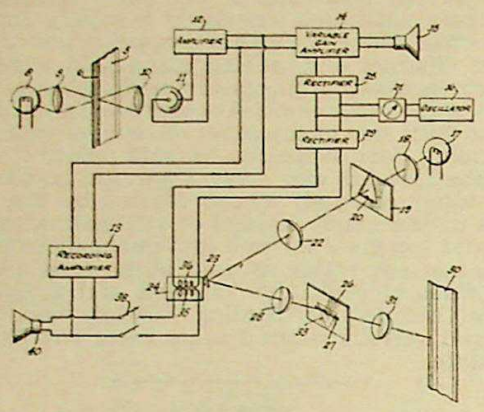
Arthur C. Blaney, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware

Application January 29, 1941, Serial No. 376,521

9 Claims. (Cl. 179—100.3)

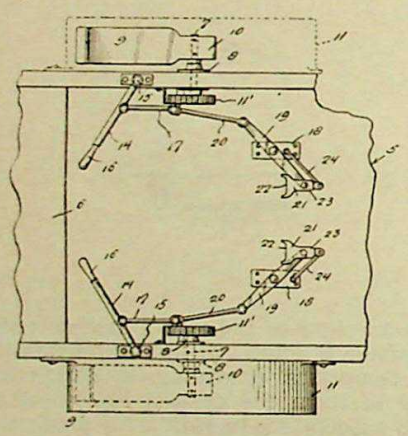
1. A synchronizing method for marking a control record film being recorded with a signal film being reproduced comprising audibly reproducing a tone and the signal from said signal film in serial order, recording only said tone on said control record during the reproduction thereof, the recording of said tone being discontinued

after a predetermined period while continuing the reproduction of said film being reproduced,



and recording on said control record the variations in amplitude of said signal record.

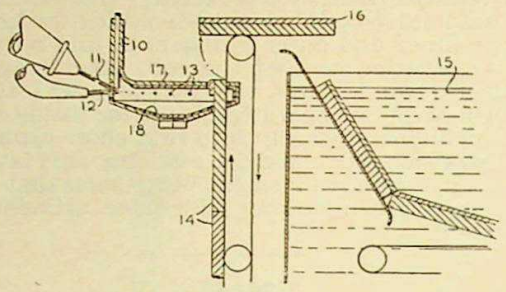
2,330,332
BOAT PROPULSION DEVICE
Robert R. Boon, Durham, Calif.
Application April 2, 1943, Serial No. 481,629
3 Claims. (Cl. 115—23)



1. In a boat propulsion device, shafts journaled in opposite sides of a boat, blades secured to said shafts, gears secured to said shafts, handles mounted for universal movement on the sides of the boat adjacent said gears, pitmans having universal connection with the handles and with the gears, gears journaled on the sides of the boat meshing with the first-named gears, foot levers pivotally mounted on the boat, pitmans connecting the foot levers to the second-named gears, and foot racks carried by the foot levers.

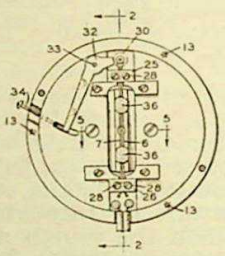
2,330,333
COATING PROCESS AND PRODUCT
Merlin Martin Brubaker, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 2, 1940, Serial No. 349,739
5 Claims. (Cl. 117—104)

1. The process of forming upon an object a coating comprising crystalline synthetic linear polyamide having a molecular weight above 3,000 and, as a heat-stabilizing agent therefor, a fusible, non-heat-hardening phenol-formaldehyde resin selected from the class consisting of p-tertiary-butylphenol-formaldehyde resin and o-cyclohexylphenol-formaldehyde resin, which process comprises introducing a rod comprising the said polyamide and resin into a substantially non-oxidizing flame, thus melting a portion of the rod, projecting the resultant molten composition by



pressured gas against the said object, and maintaining the composition so projected molten until its impingement on the said object.

2,330,334
LIGHT VALVE
William D. Buckingham, Southampton, and Dale H. Nelson, St. James, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application June 19, 1941, Serial No. 398,728
4 Claims. (Cl. 88—61)

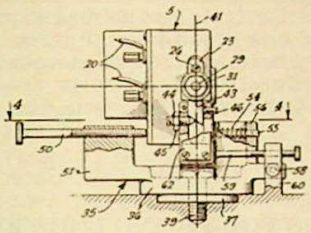


1. In a light valve for modulating a light beam, an electromagnet comprising a magnetizing coil and a core structure, said structure being shaped to provide a pair of pole pieces separated by an air gap and a light pervious aperture in each of said pole pieces, a loop of metallic ribbon supported on said core structure to place the sides of said loop in the air gap and across said aperture whereby a flow of current in said loop causes the sides of the loop to approach and recede from one another to regulate the quantity of light passing through said aperture, means including spaced rigid supports engaging the loop for positioning said loop on said core, means whereby the tension of said loop may be adjusted and rubber supports enclosing the sides of said loop and being interposed in the air gap between the aperture and each of said rigid supports for yieldingly supporting the central portion of said loop, said rubber supports being anchored to the walls of said air gap to localize vibration of the loop principally to said central portion thereof between the rubber supports.

2,330,335
GALVANOMETER ADJUSTING ASSEMBLY
Milford E. Collins, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application June 17, 1941, Serial No. 398,412
8 Claims. (Cl. 248—278)

1. A mounting for a galvanometer mirror adapted to be vibrated in accordance with sound waves to be recorded comprising, a yoke, trunnions mounted in said yoke for supporting said galvanometer, a rotatable base for said yoke,

means for rotating said base and said yoke, means for rotating said galvanometer on said



trunnions, and means for adjusting said trunnions parallel with the legs of said yoke.

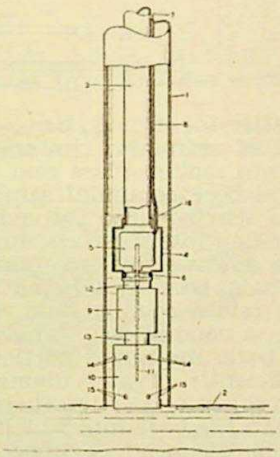
2,330,336

APPARATUS FOR PUMPING FLUIDS

Wilbur J. Crites, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 9, 1940, Serial No. 369,336

3 Claims. (Cl. 103—204)



1. In apparatus for recovering oil from a hydrocarbon oil-bearing formation through a well bore communicating therewith, the combination comprising a centrifuge for cleansing the oil below the surface of the ground by removing solid material entrained therein, a rotary pump having an inlet and an outlet with the centrifuge directly connected to the inlet of the pump, the centrifuge delivering the cleansed oil to the inlet of the pump, pump actuating means connected to the pump within the well bore, and flow tubing communicating with the outlet of the pump for transmitting the cleansed oil to the surface of the ground.

2,330,337

ALPHA, BETA-UNSATURATED KETONES AS DRYING ACCELERATORS FOR OIL MODIFIED COATINGS

Martin E. Cupery, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 18, 1940, Serial No. 361,725

10 Claims. (Cl. 260—22)

10. An air-drying coating composition comprising an oil modified alkyd resin as the sole film-forming ingredient and from 0.5 to 20 per cent of an aliphatic unsaturated ketone having a carbonyl group conjugated with an ethylenic double bond.

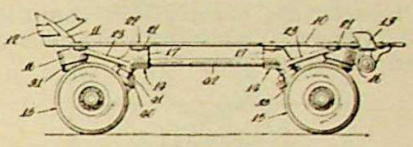
2,330,338

ROLLER SKATE

Arthur E. Dekome, Garfield Heights, and Herman C. Dekome and Vincent J. Sedlon, Cleveland, Ohio

Application May 27, 1939, Serial No. 276,180

5 Claims. (Cl. 280—11.28)



5. A roller skate, comprising: plate means, adapted to be engaged by the tread face of a foot or footwear of the wearer; an axle carrier; a pair of arms extending from said axle carrier in spaced relation and having a portion by which said plate means is supported by said axle carrier; a pair of resilient means, respectively interposed between each of said portions and said plate means; one of said portions and the respective part of said plate means being so constructed and arranged to provide a recess and a cooperating projection of a cross-sectional size smaller than said recess and formed with a shoulder, and the respective resilient means being so constructed and arranged that it fits about said projection, bears against said shoulder, and seats in said recess.

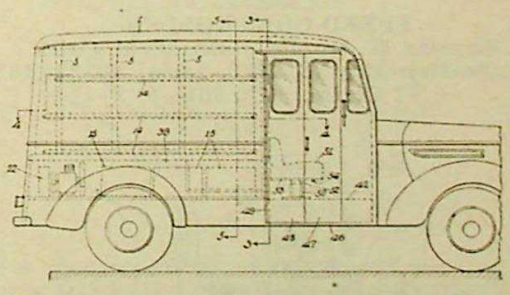
2,330,339

REFRIGERATED VEHICLE BODY

Leonel A. De More, Oak Park, Ill., assignor to Batavia Body Company, Incorporated, Batavia, Ill., a corporation of Illinois

Application October 19, 1939, Serial No. 300,217

6 Claims. (Cl. 62—17)

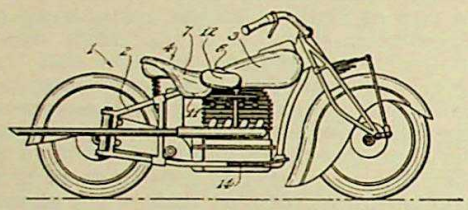


1. A refrigerated vehicle body for delivery purposes, comprising heat insulated walls enclosing a refrigerated receptacle, a plurality of separated upright members in said receptacle, arranged in separated planes extending along said body to form a corridor extending along the body, supporting guides on the opposed upright members, upon which the containers for the cooled material to be delivered are received, the space between the separated upright members being open to permit circulation of cold air, a door at one end of said corridor for loading the containers therein, and a plurality of separated doors at the other end of said corridor for removing the containers for the cooled material therefrom as they are to be delivered, said corridor being substantially the same width as the containers, so that when a front door is opened, the containers for the cooled material close the opening to prevent the cold air from falling out.

2,330,340
INSECTICIDE
Curtis E. Dieter, George E. Lynn, and Bernard J. Thiegs, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 16, 1942, Serial No. 443,284
5 Claims. (Cl. 167—30)

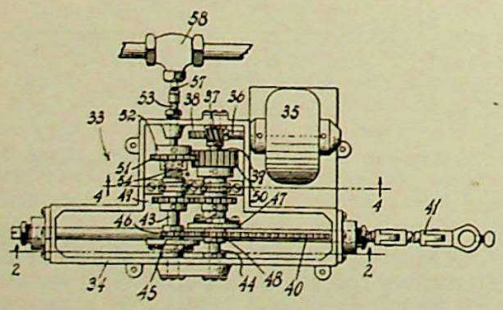
1. An insecticidal composition comprising di-(4-chloro-phenoxy)-methane and a phenothioxin compound as active toxicants.

2,330,341
MOTORCYCLE SADDLE
Stephen Du Pont, Wilbraham, Mass., and Benjamin B. Du Pont, Montchanin, Del., assignors to Indian Motocycle Company, Springfield, Mass., a corporation of Massachusetts
Application July 23, 1942, Serial No. 451,986
3 Claims. (Cl. 180—35)



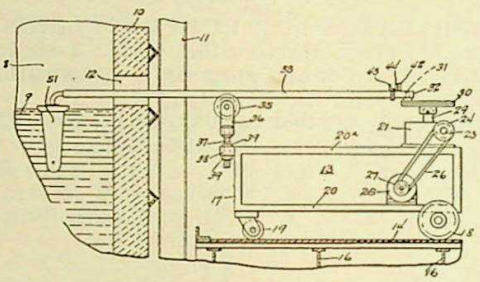
1. The combination with a motorcycle having a fuel tank mounted along its upper frame bar, of a saddle comprising an underlying frame pivotally mounted at its forward end on said upper frame bar, and a saddle top on said saddle frame arranged to provide a seat portion and a pommel portion, said pommel portion having forwardly extending side portions in the form of knee pads at each side of said fuel tank overlying the ends of the pivotal axis of said saddle frame.

2,330,342
SPEED CONTROLLER
Thomas W. Dwelle, Bakersfield, Calif.
Application May 23, 1939, Serial No. 275,162
1 Claim. (Cl. 264—9)



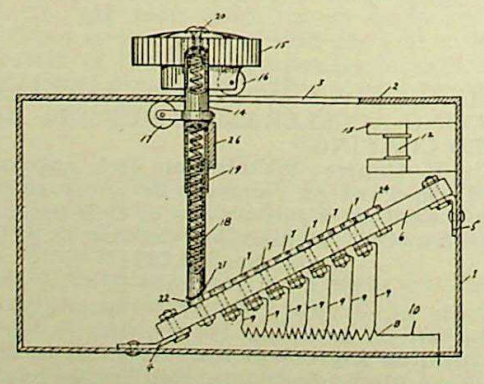
In a speed controlling device a frame, a shaft rotatably mounted on said frame, a second shaft rotatably mounted on said frame and spaced transversely from the first shaft, means for transmitting rotary motion from the first shaft to the second shaft, unidirectional clutches carried by said shafts, a rack slidable longitudinally on the frame transversely of the shafts and engaging said clutches to rotate the same during reciprocation of the rack, said rack rotating one clutch when moved longitudinally in one direction and rotating the other clutch when shifted longitudinally in an opposite direction, said clutches and the first shaft cooperating with each other to effect constant turning of the second shaft in the same direction, a member in threaded engagement with the second shaft, means for rotating said member at a constant speed and control means associated with said member, said control means being shifted longitudinally of the second shaft by action of the threaded connection of said member with the second shaft due to difference in speed between rotation of the second shaft and the said member.

2,330,343
APPARATUS FOR FINING MOLTEN GLASS
John G. Frantz, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 12, 1942, Serial No. 434,353
1 Claim. (Cl. 49—14)



An apparatus for fining glass comprising a stirring head of refractory material adapted to be inserted into molten glass and being formed with a central bore communicating with perforations in the stirring head through which gases are allowed to flow into the glass, a hollow stirring arm having a downwardly projecting portion fitting within said bore and being closed at its lower end to retain cooling fluid from emission into the bore, a conduit for fining gases extending into the bore, the upper portion of the bore being of sufficiently greater diameter than the downwardly projecting portion therein to provide a groove within the bore into which molten glass will flow when the head is dipped into molten glass, the groove being filled with glass providing a seal between the stirring head and the offset portion, the glass in the groove being cooled by the cooling fluid in said arm, at least partially to solidify it during stirring operations and means to oscillate the arm when the stirring head is dipped into molten glass.

2,330,344
STARTING DEVICE FOR ELECTRIC MOTORS
John L. Freiberg, Cincinnati, Ohio
Application January 13, 1941, Serial No. 374,223
8 Claims. (Cl. 201—62)



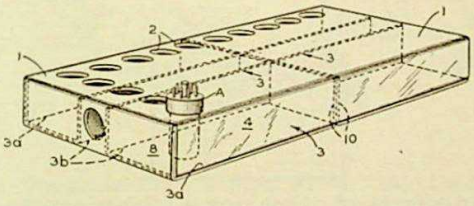
1. In a device of the character specified, in combination with a resistance, a series of contact

terminals electrically connected at intervals with said resistance, a support for said terminals arranged in an inclined position with respect to planes at right angles to one another in an horizontal and vertical direction and passing centrally through said support and with the contacting surfaces of said terminals in a plane parallel with the support, a contact member, means for mounting said contact member for movement in a linear direction in one of said horizontal or vertical planes in the direction of ascent of said contact support over said contact members while making sliding contact therewith, compressible means for yieldingly holding said contact member against said contact terminals during the movement of the contact member, said angle of inclination of contact terminals with respect to the plane of movement of the contact plunger and the force of the spring means on the contact plane being such as to cause the contact plunger to automatically descend to the lowermost contact terminal, and means for holding the contact member in position for maintaining contact with the uppermost contact terminal.

2,330,345
PACKAGE

Charles I. Elliott, Sea Girt, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 30, 1941, Serial No. 408,962
2 Claims. (Cl. 229—16)



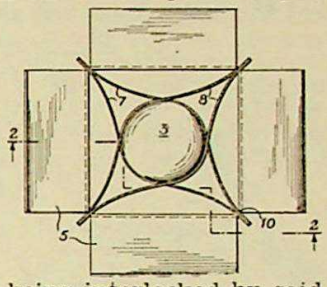
1. A one-piece tray made of foldable sheet material and comprising a rectangular support platform having an odd number and at least three rows of holes parallel to the sides of said platform, two rectangular side flaps integral with opposite edges of said platform and having end panels adapted to be perpendicular to and in edge contact with said platform on opposite sides of the middle row of platform holes when said side flaps are closed in said platform, each side flap having near the middle a slot extending partly across the end panel between adjacent holes in each row, two end flaps having tuck panels which lie side by side midway of said platform when said end flaps are closed, each of said tuck panels being adapted to enter both said slots in said side flaps and each having in its edge two notches to interlock with and hold said side flap end panels perpendicular to and in edge on contact with said platform and on opposite sides of the middle row of holes and spaced about the diameter of said holes to form the side walls of a trough in alignment with and open to said middle row of holes.

2,330,346
CARTON

Charles I. Elliott, Sea Girt, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 31, 1942, Serial No. 436,991
5 Claims. (Cl. 229—6)

1. A container for fragile articles comprising an outer tubular box, an inner article supporting cradle comprising two pairs of flat, thin straps of a width less than the depth of said box extending across the top of said box edgewise to the ends of the box and crossed intermediate their ends, each of said straps having in one edge and intermediate its ends a pair of spaced notches,

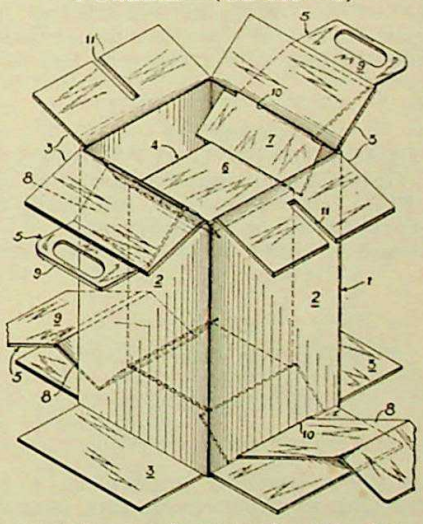


said straps being interlocked by said notches at their intersections to make the portions of said straps between said notches the sides of an article holder, and means for securing the ends of each pair of straps to the sides of said box near the top to suspend said cradle in said box.

2,330,347
SHIPPING CONTAINER

Charles I. Elliott, Sea Girt, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 30, 1942, Serial No. 441,069
4 Claims. (Cl. 229—6)



1. A container of paperboard for packing fragile articles comprising a rectangular outer container, said outer container having four side panels, and flaps at the ends of the panels for closing the ends of the outer container, and a rectangular inner container inside and spaced on all sides and ends from the outer container, sole means for supporting the two containers in spaced relation comprising a pair of flat, relatively stiff, straps at each end of the inner container extending directly from opposite end edges of the inner container to the corresponding end edges of the outer container.

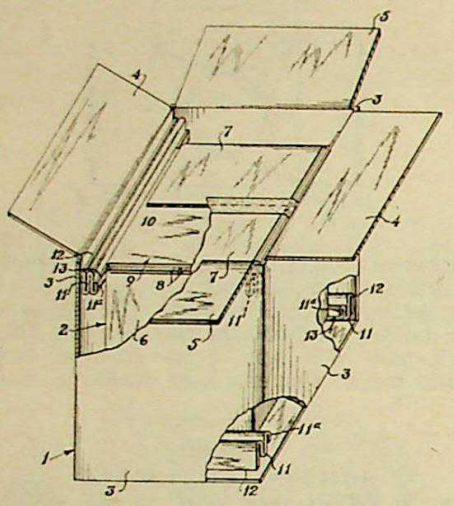
2,330,348
PACKAGE

Charles I. Elliott, Sea Girt, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 1, 1942, Serial No. 449,205
5 Claims. (Cl. 229—6)

1. A package comprising an inner container

having four rectangular side panels, an outer container having four rectangular side panels, said containers having end flaps, and means for resiliently but firmly spacing the inner container from the sides and ends of the outer container, comprising a strap extending across and secured to each end of the inner container, the strap ex-



tending beyond the side panels of the inner container, the extended portions of the straps having accordion folds, the width of the straps beyond the sides of the inner container being equal to the width of the outer container, the junction between the folds and the strap panel being positioned intermediate the creases of the folds.

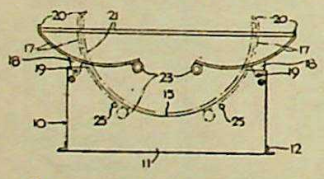
2,330,349

GLASS BENDING APPARATUS

Henry J. Galey, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application September 6, 1940, Serial No. 355,614

6 Claims. (Cl. 49—67)



1. In a glass bending apparatus, a pair of spaced molding members including permanently concave portions and relatively movable to define together in one position a common path of curvature along which sheet glass is to be bent and also relatively movable to an outwardly spread position to support opposite edges of a flat glass sheet preparatory to bending it, said members being provided with means for holding the opposite edges of the sheet glass in position on the molding members in their outwardly spread position, and supporting means carrying the molding members in their movable relation.

2,330,350

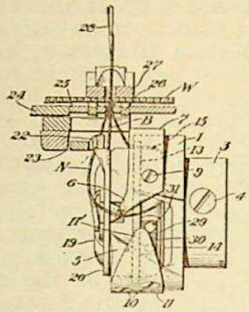
SEWING MACHINE LOOP-TAKER

David A. Graesser, Westfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application March 11, 1942, Serial No. 434,214

11 Claims. (Cl. 112—228)

1. A rotary loop-taker for sewing machines, including a body-member having a cylindrical side wall provided with a needle-thread-loop seizing beak, a thread-carrier member having a bearing support in said body-member, said thread-carrier member having a generally cylindrical side wall disposed within and spaced from said side wall of the loop-taker body-member at one side of said



bearing support, and a wiper-element carried by and extending from the outer face of said thread-carrier member into wiping relation with the inner face of said side wall of the loop-taker body-member.

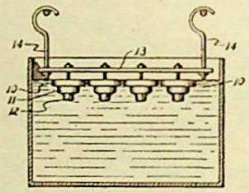
2,330,351

METHOD OF MAKING RUBBER ARTICLES

Merrill E. Hansen, Silver Lake Village, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware

Application October 1, 1942, Serial No. 460,333

5 Claims. (Cl. 18—58)



1. In a method of making a rubber article from an aqueous dispersion of a rubbery material, said article having at least a portion of its surface of concave configuration, the method which comprises providing a deposition form having a corresponding surface portion of convex configuration, depositing rubbery material thereon from the aqueous dispersion of rubbery material, removing the rubbery deposit therefrom, forcing the portion of the rubbery deposit having a surface of convex configuration into a concave configuration, and setting the rubbery deposit while maintaining said concave configuration.

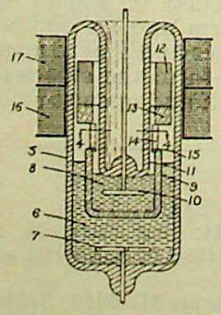
2,330,352

MERCURY SWITCH

Alexander T. Harvey, Galveston, Tex.

Application August 31, 1942, Serial No. 456,759

10 Claims. (Cl. 200—112)



1. A mercury switch comprising an envelope with spaced electrodes sealed therein, normally spaced mercury bodies contacting each of said

electrodes, a plunger contained in said envelope, said plunger being adapted to join and separate said mercury bodies, and means for variably weighting said plunger whereby it may be retained in a state of equilibrium in either of its positions resulting in said joined or said separated states.

2,330,353

MIXTURE OF POLYMERIZED MATERIALS

Donald E. Henderson, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 20, 1940, Serial No. 341,530

12 Claims. (Cl. 260—42)

1. A composition of matter comprising a homogeneous mixture of a polymeric material in which the predominant constituent is a vinyl halide, and a copolymer of a butadiene-1,3 hydrocarbon and an acrylic nitrile.

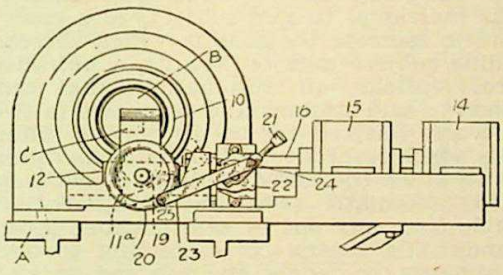
2,330,354

SHAPING OR CUTTING MACHINE

John T. Hepburn, Toronto, Ontario, Canada

Application November 25, 1941, Serial No. 420,434

2 Claims. (Cl. 82—24)



1. A machine for shaping or cutting material comprising in combination means for holding the material, a tool holder for positioning a cutting tool relatively to the material, means for moving the tool holder forward or backward along beside a surface of the material, control means for controlling the movement of said moving means for the tool holder, means for moving the tool towards and away from the material into and out of operating position and means actuated by said control means for actuating the tool moving means to position the tool in operating position on forward motion of the tool holder and to withdraw the tool from operating position upon reverse movement of the tool holder, said means for moving the tool holder including a prime mover disposed at an angle to the tool holder and operatively connected therewith to move the tool holder in forward or reverse direction, said control means being connected with the prime mover to control its movement and including a reciprocal lever and mounting therefor movable with the tool holder, said tool moving means including a rotatable screw threaded shaft in threaded engagement with the tool holder and on which the tool holder is movable and an operating member for rotating the shaft, said control lever and operating member being link connected to operate in unison.

2,330,355

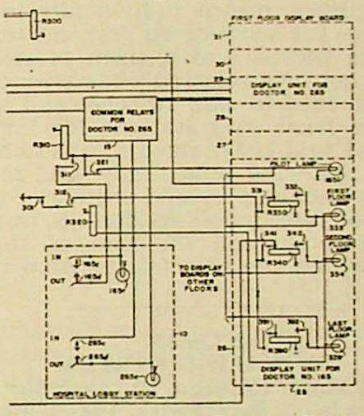
INDICATING SYSTEM

Harry E. Hershey, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware

Application April 26, 1941, Serial No. 390,621

10 Claims. (Cl. 177—353)

1. In a system for indicating the location of a plurality of subjects which may be located in different zones of a plural zone area, a display board in said area including display units individually corresponding to said subjects, a control station including signal transmitting means operative to transmit signals designating different ones of said units, each of said units being designated by two different signals, automatic switching means operative to select one of said units when either of the two signals designating said one unit is transmitted thereto from said control station, a device controlled by the transmitted signal and having two settings respectively



corresponding to the two signals designating said one unit, means operative to wipe out an indication previously displayed by said one unit in response to the selection of said one unit by said switching means, means operative incident to the release of said switching means for causing said one unit to display an indication of the zone wherein the subject corresponding to said one unit may be located, and means controlled by said device for preventing the operation of said last-named means when said device is operated to a predetermined one of its two settings in response to the signal transmitted to said switching means.

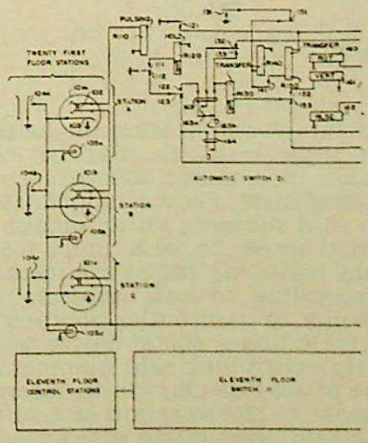
2,330,356

INDICATING SYSTEM

Alfred H. Belliveau, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware

Application April 26, 1941, Serial No. 390,624

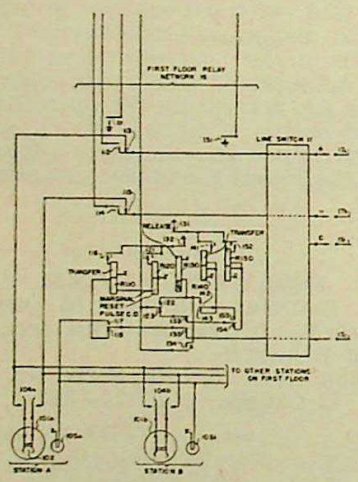
13 Claims. (Cl. 177—353)



1. In a system for indicating the location of a plurality of subjects which may be located in different zones of a plural zone area and which includes control stations individual to said zones, display registers individual to said subjects and each including a zone indicating element having

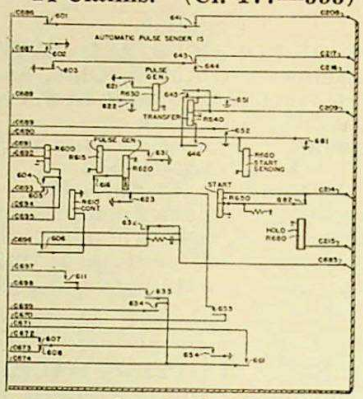
a normal position and a plurality of off-normal positions wherein characters are displayed thereby which indicate the different zones, each of said registers including a pulse controlled magnet which is operative to drive the associated indicating element from any off-normal position to its normal position when a train of restoring pulses is transmitted thereto and to then drive the associated element to another off-normal position when a train of reset pulses is transmitted thereto, automatic selector switches individual to said zones and each controllable from the control station of the corresponding zone to select any one of said registers, means individually included in said switches for successively transmitting a train of restoring pulses and a train of reset pulses to the magnet of a selected register, means individually included in said switches and selectively controllable from said stations for limiting the operation of said last-named means to the transmission of restoring pulses only, and means also individually included in said switches for causing each train of reset pulses to identify, by the number of pulses thereof, the zone of the control station in which the associated switch is located.

2,330,357
SIGNALING SYSTEM
Thomas H. Mote, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application April 26, 1941, Serial No. 390,557
8 Claims. (Cl. 177—353)



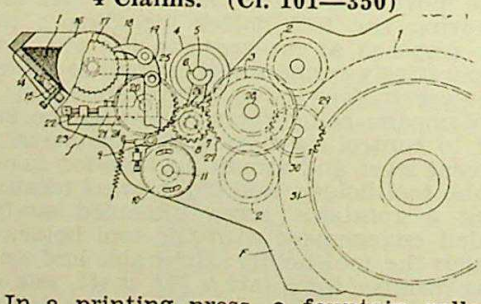
1. In a system for indicating the location of a plurality of subjects which may be located in different zones of a plural zone area, a display board including display units individually corresponding to said subjects, an automatic selector switch having access to said units for control purposes and including outlet contacts individually corresponding to said subjects, marking paths extending to said outlet contacts, a control station including a signal device and means for directively controlling said automatic switch to select one of said display units, means operative in response to the selection of said one unit for resetting said one unit to display an indication of the zone in which the corresponding subject may be located or for wiping out an indication previously displayed by said one unit, and means selectively controlled over one of said marking paths from said signaling station for energizing said signal device.

2,330,358
INDICATING SYSTEM
Vincent A. Johnson, Evanston, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application May 1, 1941, Serial No. 391,275
14 Claims. (Cl. 177—353)



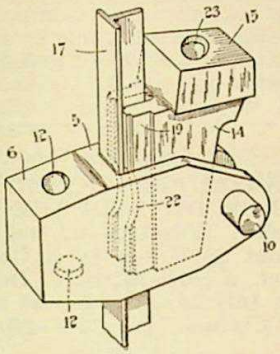
1. In a system for indicating the location of a plurality of subjects which may be located in different zones of a plural zone area, a display board including signal controlled indicating means individual to said subjects and each operative to indicate the zone in which the corresponding subject may be located, a plurality of control stations, an automatic signal sender common to said stations and operative to transmit to any selected indicating means different signals which respectively designate the different zones in which the corresponding subject may be located, automatic switching equipment controllable from any one of said stations to select the indicating means corresponding to one of said subjects, to render the selected indicating means controllable by said sender and to initiate the operation of said sender, and means individual to any calling one of said stations for causing said sender to transmit to the selected indicating means the signal which designates the zone in which said one subject may be located.

2,330,359
INKING ARRANGEMENT FOR PRINTING PRESSES
Frederick W. Hill, Rutherford, N. J., assignor to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware
Application August 2, 1940, Serial No. 349,743
4 Claims. (Cl. 101—350)



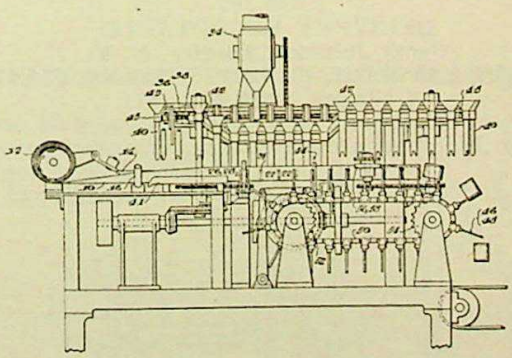
1. In a printing press, a fountain roller, an ink-distributing roller, a ductor roller for periodically transferring ink to said ink-distributing roller, an auxiliary roller remaining constantly in contact with said fountain roller for transferring ink to said ductor roller, and means for continuously rotating said auxiliary roller by power derived from the plate cylinder of said printing press, said auxiliary roller being thus rotated at substantially the same surface speed as that of said plate cylinder.

2,330,360
POST DRIVING HEAD
Albert F. Hill, Longueuil, Quebec, Canada
Application June 23, 1941, Serial No. 399,409
2 Claims. (Cl. 61—77)



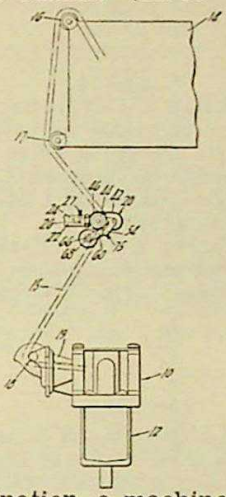
1. A driving head assembly for application to a post comprising a U-shaped post straddling yoke arranged with its bight portion butted against one side of the post and its side arms projecting beyond the opposite side of the post, a cylindrical pin extending through openings provided adjacent the free ends of said side arms whereby said pin is supported in spaced opposing relation to the last mentioned side of the post, an annular member rotatably mounted on the portions of the pin lying between said side arms, and a driving wedge arranged between said side arms in wedging engagement with said post and said annular member.

2,330,361
METHOD OF AND APPARATUS FOR PRODUCING BAGS
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application March 14, 1941, Serial No. 383,280
25 Claims. (Cl. 93—3)



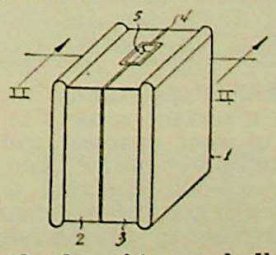
1. In a method of making individual filled bags, the steps comprising forming bag forming material into the form of a strip having a closed bottom and open top, sealing the bag forming material of such strip transversely at predetermined spaced intervals to form the side seams of a series of bag sections, depositing a commodity into successive bag sections, and moving the strip by a member disposed within a bag section into registered position with relation to a cutter for severing successive bag sections from the strip through the aforesaid sealed side seams.

2,330,362
MACHINE GUN
Smith B. Howe, Grand Island, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.
Application August 9, 1941, Serial No. 406,154
10 Claims. (Cl. 89—33)



9. In combination, a machine gun, an ammunition magazine spaced from said machine gun, a cartridge belt training from said magazine into said machine gun in response to pulling forces thereon and normally tautened by said pulling forces, a control member geared to said cartridge belt at a position intermediately of said magazine and said gun and adapted to be moved in accord with movement of said cartridge belt from said magazine, brake means associated with said control member, idler means adapted to bear against said cartridge belt, and lever means connected to said brake means and said idler means and adapted to be actuated by the latter upon slackening of said cartridge belt to brake the movement of said control member whereby to brake the movement of said cartridge belt from said magazine toward said gun, said lever means comprising a pair of members connected respectively to said idler means and said brake means and interconnected by means of a lost motion connection device to provide regulated response to alternate tightening and slackening of said cartridge belt.

2,330,363
METHOD OF MAKING GLASS BANKS
Anthony Kaziska, Port Allegany, Pa., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa., a corporation of Pennsylvania
Original application December 14, 1938, Serial No. 245,638. Divided and this application May 25, 1940, Serial No. 337,225
3 Claims. (Cl. 49—82)



1. A method of making a hollow glass bank which comprises aligning in opposed relation two complemental cupped sections of glass heated to fusing temperature, bringing the opposed complemental rims of the sections together to fuse

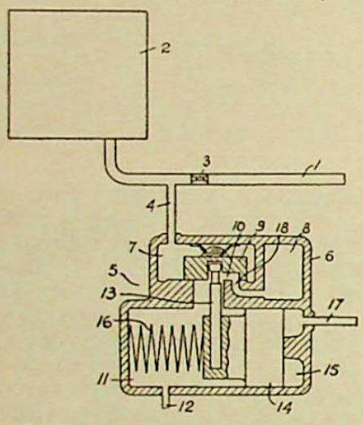
them into an integral unit and under sufficient pressure to form a raised junction seam between said sections, and forming a coin-receiving slot at the junction seam between the sections during the step of fusing them together and in such manner that the raised seam forms projecting lips about the slot.

2,330,364

CONTROL OF FLUID COMPRESSOR SYSTEMS

Arthur Greenwood Kershaw and Arthur William Simmons, King's Cross, London, England, assignors, by mesne assignments, to Westinghouse Air Brake Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application December 3, 1941, Serial No. 421,456
In Great Britain September 3, 1940
9 Claims. (Cl. 303—11)



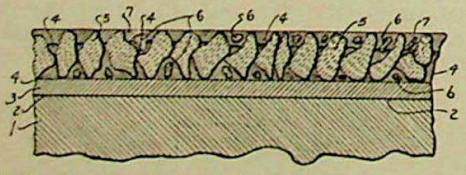
1. In a fluid pressure system of a type comprising a pressure pipe adapted to receive fluid under pressure supplied by a compressor, and an automatic governor device responsive to a reduction in the pressure of fluid in said pipe for controlling the operation of the compressor, in combination, a flow restricting device interposed between said governor device and said pipe, and means connected in the system on the governor side of said flow restricting device and responsive to a variation in the pressure of fluid in another part of the system for effecting a temporary reduction in the pressure of fluid acting on said governor device, and consequent operation thereof.

2,330,365

ABRASION RESISTANT COATING

James O. Jackson, Crafton, Pa.

Application August 2, 1940, Serial No. 349,519
5 Claims. (Cl. 117—29)



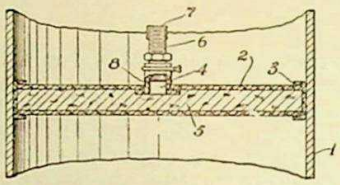
1. The method of applying an abrasion resisting coating to a surface subject to heavy wear, such as those of steel, concrete and other floorings, which method comprises applying to said surface a prime coat, applying to said prime coat a coat of paint which hardens throughout and whose hardness is substantially unaffected by atmospheric temperatures, uniformly spreading over said coat before it hardens grains of an abrasive, substantially uniform in size and of greater height than the thickness of said coat and in quantity sufficient to form a continuous layer of grains contacting each other at adjacent points, causing said layer of grains to settle into substantial contact with said prime coat, permitting said coat of paint to harden, removing the excess grains of abrasive, and applying over said layer of grains a second coat of paint which hardens throughout and whose hardness is unaffected by atmospheric temperatures, said second coat being of a thickness to approximately cover the tops of said layer of grains and fill the spaces therebetween.

2,330,366

APPARATUS FOR PREVENTING EVAPORATION FROM OIL STORAGE TANKS

David W. Jayne, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application July 26, 1940, Serial No. 347,598
2 Claims. (Cl. 220—26)



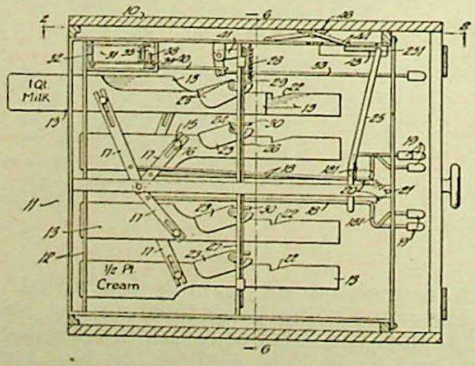
1. The combination of a closed storage tank adapted to contain a volatile hydrocarbon liquid, means for passing the said hydrocarbon liquid in and out of the said tank, and a float covering the liquid in said tank and preventing evaporation thereof comprising a substantially flat vapor and liquid tight flexible envelope loosely filled with a solid granular buoyant material and having a dimension substantially equal to the largest horizontal cross-sectional dimension of the tank, said flexible envelope being sufficiently flexible to be inserted in the tank through a manhole and having liquid tight means which can be readily opened and closed for inserting the said granular buoyant material, said envelope being rendered impervious to the hydrocarbon liquid by having a film on its surface of a synthetic rubber-like polymer.

2,330,367

DELIVERY RECEPTACLE

Oscar Johnson, Hadley, N. Y.

Application March 13, 1942, Serial No. 434,471
6 Claims. (Cl. 232—41)



1. In a device of the character described, a housing provided with an opening, a normally concealed indicating member formed on its upper side with a notch, means for projecting said member outwardly through said opening to indicating position, a tiltable locking member engageable with said notch on the movement of said indicating member to indicating position,

a service door through which articles may be inserted in said housing and means operable in response to the closing of said service door for tilting said tiltable member out of said notch and thereby releasing said indicating member from its exposed position.

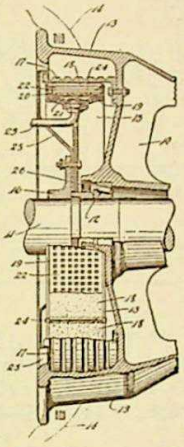
2,330,368

ANTINOISE BRAKE STRUCTURE

Robert H. Judson, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application April 10, 1941, Serial No. 387,897

6 Claims. (Cl. 188—152)



2. A brake mechanism wherein an expansible element comprising resilient rubber-like material is mounted on a supporting element to press an intervening braking element into sliding engagement with a braking surface, characterized by the fact that at least one of said elements is relieved by circumferentially discontinuous depressions in portions other than the surfaces in sliding engagement to provide space for accommodating distortion therein of the rubber-like material of said expansible element to promote yieldability in the same for avoiding objectionable sound in effecting said sliding engagement of said braking element with said braking surface.

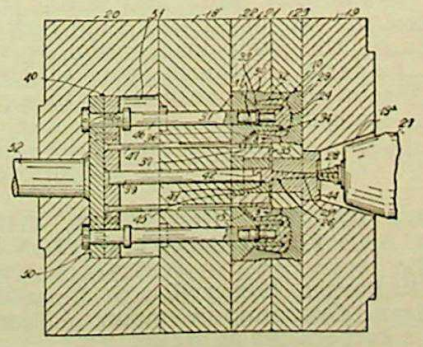
2,330,369

APPARATUS FOR MOLDING PLASTIC MATERIAL

Orlo W. Marsh, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio

Application June 28, 1940, Serial No. 342,994

5 Claims. (Cl. 18—42)



1. In apparatus for molding articles which are oppositely tapered in both directions proceeding from an intermediate region of greatest cross sectional area, a pair of mold members having relatively confronting recesses, together defining a cavity of the shape of the desired article and having a parting plane adjacent the said intermediate region of the cavity, means for introducing plastic material into said cavity under pressure including a gate passage for supplying plastic material to the cavity extending through one mold member and having a branch passage communicating with the reduced inner end extremity of the tapered recess of the other member, said supply passage being disposed substantially laterally of said cavity and said branch passage extending generally laterally to effect communication between said supply passage and the extreme reduced end of the tapered recess of said other mold member, and ejecting mechanism for discharging the article from the mold including means movable to shear the stem of material in said branch passage for cutting the article loose from the gate material formed in the gate passage.

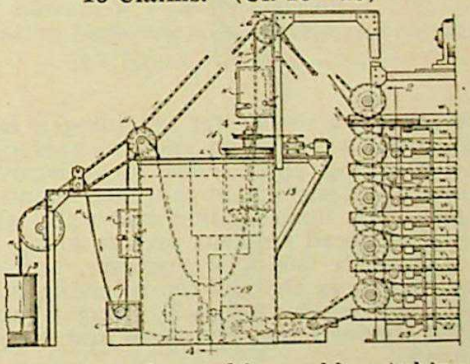
2,330,370

APPARATUS AND METHOD FOR MANUFACTURE OF RUBBER TUBING

Donald J. Miller, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application June 5, 1940, Serial No. 338,920

18 Claims. (Cl. 18—15)



16. Apparatus for making rubber tubing comprising, in combination, a filamentary mandrel comprising a plurality of separate mandrel members coupled in end-to-end relation, said mandrel members being formed of extensible rubbery material, means for causing the mandrel to travel along a determinate path and, disposed along said path, means for applying a coating of latex rubber to the mandrel.

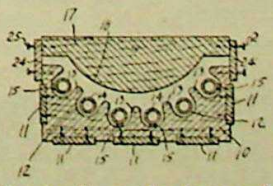
2,330,371

METHOD OF PRODUCING FORMS FOR MOLDING VENEER

John A. Miller, De Kalb, Ill., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation

Original application August 31, 1940, Serial No. 354,972. Divided and this application March 21, 1942, Serial No. 435,668

8 Claims. (Cl. 22—202)



1. The method of producing a form for shaping sheet material consisting in forming a recess in a block of wood of the same general contour

as the shape desired to provide the female forming member, mounting a plurality of heating elements in the recess thereof in spaced relation, shaping a block of wood with a convex surface of the shape desired to provide the male forming member, pouring molten metal into the recess of the block of wood forming the female forming member to surround and cover said heating elements, and applying the convex surface of the male die member to the metal contained in the recess of the female die member while in a substantially fluid state to thereby provide a metallic forming and heating surface therein conforming to the male member.

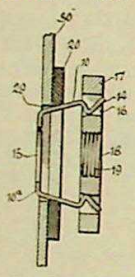
2,330,372

RETAINING MEANS

William R. Mittendorf, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio

Application November 12, 1940, Serial No. 365,201

2 Claims. (Cl. 85—32)



1. A retaining device for retaining a member against a wall through an aperture therein comprising a spring clip having an apertured flat face, lateral extensions on said face adapted and arranged to lie flush against said wall, said clip having shouldered resilient prongs which in use extend through the wall aperture, and a nut having apertures therein for receiving and engaging the shoulder of each prong when fully extended through said apertures and for receiving a screw.

2,330,373

PICTURE HOOK

George A. Moore, Medford, Mass.

Application January 27, 1942, Serial No. 428,363

1 Claim. (Cl. 248—217)

A picture hook comprising a strip of stiff material having a normally vertical mid-portion and a lower portion bent upward to make an acute angle with said mid-portion, an inturned flange at the extremity of said lower portion of the strip, and a piece of relatively soft frictional material fitted against the inner face of said lower portion between said bend and the inturned flange.

2,330,374

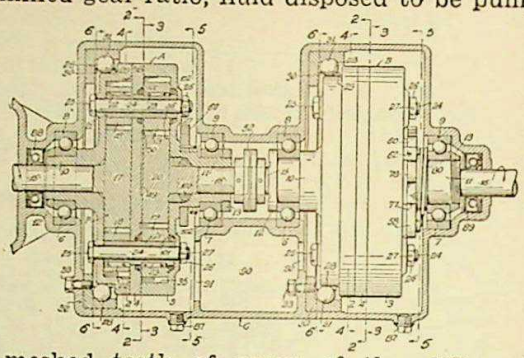
POWER TRANSMISSION

Harry Orner, Cleveland Heights, Ohio

Application July 18, 1940, Serial No. 346,172

32 Claims. (Cl. 74—294)

1. In a power transmission, a driving and a driven rotary shaft, interconnected through a differential gearing mechanism comprising rotatable meshed gears, a brake on an element of the differential mechanism to prevent its rotation in one direction to thereby cause the driving shaft to drive the driven shaft by the gears at a predetermined gear ratio, fluid disposed to be pumped



by meshed teeth of gears of the differential mechanism to thereby exert a pump load braking action on the pumping gears, and means to variably control the rate of pumped fluid flow to variably control the pump load braking action, to variably control the ratio of transmission.

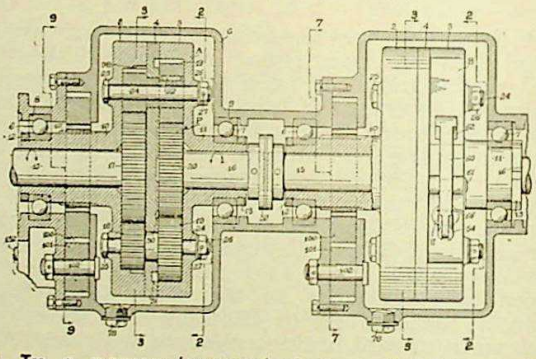
2,330,375

AUTOMATIC POWER TRANSMISSION

Harry Orner, Cleveland Heights, Ohio

Application May 31, 1941, Serial No. 396,225

25 Claims. (Cl. 74—294)



1. In a power transmission, a driving and a driven rotary shaft, interconnected through a differential gearing mechanism comprising rotatable meshed gears, means to control the rotary direction of the differential gearing mechanism responsive to a predetermined velocity of the drive shaft, to cause the driving shaft to drive the driven shaft by the gears at a predetermined gear ratio, fluid disposed to be pumped by meshed teeth of gears of the differential mechanism to thereby exert a pump load braking action on the pumping gears, and means to variably control the rate of pumped fluid flow to variably control the pump load action, to variably control the ratio of transmission, said variable control means operable responsive to a relation of torque transmitted.

2,330,376

PREPARATION OF BIGUANIDE, GUANYLUREA, AND THEIR SUBSTITUTION PRODUCTS

Robert P. Parker, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 23, 1941, Serial No. 394,803

2 Claims. (Cl. 260—553)

1. A method of preparing a free base of the

group consisting of biguanide, guanylurea, and their substitution products, where the substituents are alkyl groups having not more than four carbon atoms, from their salts of inorganic acids taken from the group consisting of hydrogen sulfate and hydrogen chloride, which comprises reacting said salts in approximately equivalent proportions with compounds of the group consisting of sodium and potassium alcoholates of aliphatic alcohols having not more than four carbon atoms in a solvent medium consisting of an aliphatic alcohol having not more than four carbon atoms.

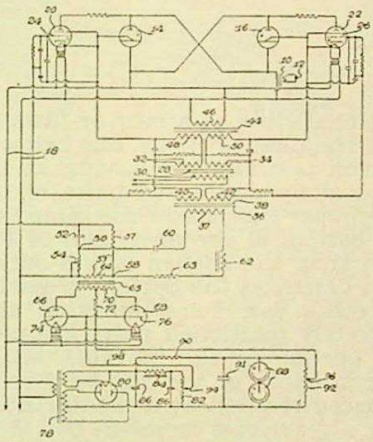
2,330,377

ELECTRICAL CONTROL SYSTEM

Robert S. Phair, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 31, 1940, Serial No. 372,689

27 Claims. (Cl. 171—119)



1. An electric power system comprising in combination, a load circuit, circuit means connecting the load circuit to a source of alternating current, a pair of inversely connected electronic gaseous discharge devices disposed to conduct the entire flow of current in said load circuit, control means for rendering said electronic devices conducting to permit the flow of load current, phase shift means comprising a resistance reactance network having two circuits connected to be energized from the source of alternating current in parallel, one of said circuits comprising a resistance and reactance in series, and the other comprising an adjustable impedance, for effecting the energization of said control means at a predetermined time in a cycle of the alternating current, and electronic means automatically responsive to variations in the voltage of said alternating current source for controlling the voltage phase of the adjustable impedance of said phase shift means to correspondingly adjust the time in each cycle when said electronic discharge devices are rendered conducting, for maintaining the energy supplied to the load circuit substantially constant.

2,330,378

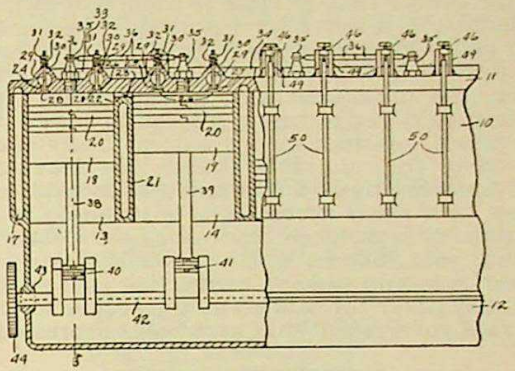
INTERNAL COMBUSTION ENGINE

George A. Poll, Cincinnati, Ohio

Application July 13, 1942, Serial No. 450,731

7 Claims. (Cl. 123—53)

7. In an internal combustion engine, a pair of cylinders each of a different diameter and each containing a piston for reciprocation therein, said pistons and cylinders operating as a unit and adapted to be charged with gaseous fuel to be exploded, means for effecting the simultaneous explosion of said fuel in each cylinder, and a crank shaft below said pistons and cylinders having a pair of crank pins respectively connected



with said pistons and one of said crank pins being farther removed from the crank shaft than the first crank pin and one of said crank pins being angularly advanced with respect to the other.

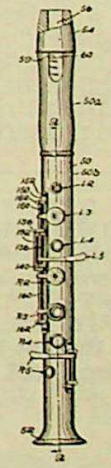
2,330,379

MUSICAL INSTRUMENT

Edward V. Powell, Scarsdale, N. Y.

Application September 12, 1941, Serial No. 410,553

11 Claims. (Cl. 84—384)



1. A tubular wind instrument having a series of seven tone holes so sized and spaced from each other lengthwise of the tube of the instrument as to sound a diatonic scale in a predetermined octave comprising the note do sounded when all the holes in said series are closed and re, mi, fa, sol, la, ti and do sounded in progression by opening the lowest one to seven holes in said series respectively, two additional tone holes, one of such size and so positioned as to sound the note ri when it and the lowest hole only in said series are opened, and the other of such size and so positioned as to sound the note si when it and the lowest four holes only in said series are opened, a spring pressed, manually openable cover for each of said additional tone holes adapted to maintain the same normally closed, a cover for the fourth lowest hole in said series having an aperture of a size to sound the note fi when, with said aperture open, said cover, all of the holes in said series above said fourth lowest hole and one of the lowest three holes in said series are closed, mechanism for automatically closing the cover for said fourth lowest hole, leaving its

said aperture open, when said one of said lowest three holes is manually closed comprising a member depressed by the finger in closing said one of said lowest three holes and linkage connecting said member and said cover for said fourth lowest hole to close it when said member is depressed, a cover for the sixth lowest hole in said series having an aperture of a size to sound the note te when, with said aperture open, said cover, the uppermost hole in said series and a hole in said series below said sixth lowest hole are closed, mechanism for automatically closing the cover for said sixth lowest hole, leaving its said aperture open, when said hole in said series below said sixth lowest hole is manually closed comprising a member depressed by the finger in closing said hole in said series below said sixth lowest hole and linkage connecting said member and said cover for said sixth lowest hole for closing said cover when said member is depressed.

2,330,380

PROCESS OF MAKING PYRIMIDINE COMPOUNDS

Donald Price, New York, N. Y., Everette L. May, Newark, N. J., and Frank D. Pickel, Bellmore, N. Y., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application December 20, 1939, Serial No. 310,162

3 Claims. (Cl. 260—251)

1. A process for preparing esters of pyrimidine compounds having a carboxyl group in the 5 position which comprises dissolving a pyrimidine carboxylic acid of the above type in concentrated sulfuric acid, adding to the solution an aliphatic alcohol containing from 1 to 6 carbon atoms and heating the reaction mixture.

2,330,381

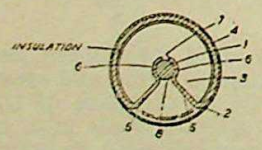
ELECTRIC COMMUNICATION CABLE

Joshua Creer Quayle, Manley, Helsby, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application May 12, 1942, Serial No. 442,648

In Great Britain May 7, 1941

10 Claims. (Cl. 174—28)



1. A spacing member for electric cables and the like, comprising a continuous band of narrow material bent to form a skeletonized disc of predetermined diameter, the central part of said band being shaped to define a partial periphery for said disc, other parts of said band forming at least two points spaced from the center of the disc at a distance equal to the radius thereof and opposite to said partial periphery, and the rest of the band consisting of a pair of juxtaposed sprung legs spaced inwardly from the outer circumference of said disc, said legs forming between them a conductor-receiving opening of a diameter normally smaller than the diameter of the conductor, and adapted to be sprung apart to enlarge said opening and grip the conductor.

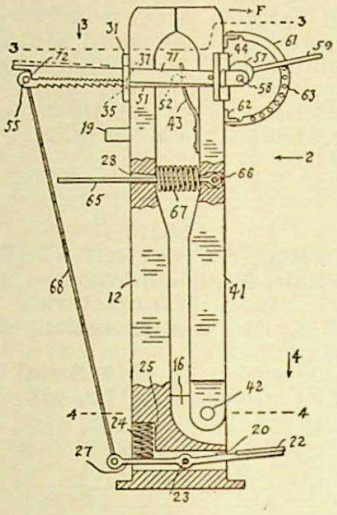
2,330,382

VISE

Clement E. Richards, Muncie, Ind.

Application May 27, 1942, Serial No. 444,621

4 Claims. (Cl. 81—25)



2. A vise consisting of a pair of jaws pivotally joined at their lower portions, one being adapted to be fixed in position and having at its upper portion oppositely positioned pairs of guideway slots whose upper ends are in the same horizontal plane, the bottom of the inner slot of each pair being lower than the bottom of the outer slot of said pair, a detent at the bottom of each of said slots, the other jaw being movable about the pivot, oppositely positioned pairs of openings in the upper portion of the movable jaw, a yoke structure consisting of toothed bars retained in opposed spaced relation by a medial cross member and by a rear cross member, the latter having axial pintles, the frontal ends of said yoke bars being loose in the inner openings of said movable jaw and the said bars resting in engagement with the detents of the inner guideway slots of the said fixed jaw, a cam having its axle journaled in the forward ends of the said yoke bars, a handle for said cam, toothed link bars loose in the outer guideway slots of the said fixed jaw, their rearward ends being poised above said pintles, their forward ends being loosely connected in the outer openings of said movable jaw, means interacting between said yoke structure and said movable jaw, to hold the cam in coengaged relation with the latter, means to urge the movable jaw away from the fixed jaw, a foot lever, means to urge the foot lever to position with its weight arm lowered, and a connecting rod pivotally interconnecting the rearward cross member of the yoke structure and the weight arm of said lever.

2,330,383

RECORD CHANGER MECHANISM FOR PHONOGRAPHS

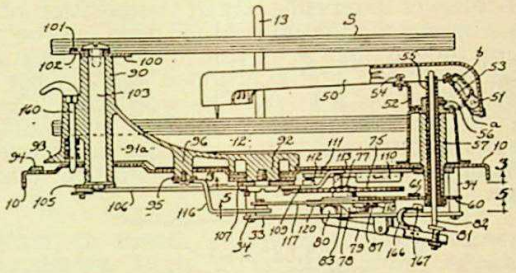
Howard A. Roe, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio

Application January 20, 1942, Serial No. 427,468

7 Claims. (Cl. 274—10)

1. A power take-off for a phonograph record changing mechanism for phonographs of the type comprising a turntable, a turntable motor, a turntable spindle, a pinion carried by said phonograph turntable spindle, a phonograph needle-carrying tone arm, a pair of record supporting

posts arranged adjacent said turntable, said posts having plate means associated therewith, said plates being movable to singly supply new records upon the turntable below, said power take-off comprising an arm pivoted intermediate its ends upon a base structure for said phonograph record changing mechanism, a train of intermeshed gears carried by said arm comprising a compound driven gear, an intermediately disposed idler gear and a driving gear adapted to engage the pinion carried by the said phonograph turntable spindle, said pinion being in constant driven relation with the shaft of the phonograph motor, a master gear carried by said base structure, said compound gear adapted to further engage the master gear rotatable to communicate timed actuating motion to record changing controller means for raising, swinging and lowering of the tone arm associated with the



phonograph turntable, and for communicating movement to said movable plates to superposition new records on the turntable after any outward swinging movement of the raised tone arm with respect to the turntable, said driving gear journalled on said arm in spaced relation to said driven gear axis, a spring adapted to exert pressure tending to swing said arm laterally forwardly to mesh said driving gear element with said motor driven gear pinion, a latch normally holding said arm in an outwardly swung position, means operated by said tone arm when its needle traverses the terminal groove of a played record to release said latch, to initiate the power take-off and associated master gear, to actuate the above said controller means and record supports, and the included angle defined by the axis of oscillation of said arm of rotation, of rotation of said driving gear element and of rotation of said motor driven gear pinion being substantially less than 90°.

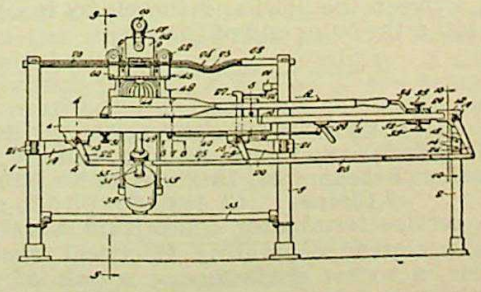
2,330,384

MACHINE FOR BEVELING OARS

Harry Ronquist, Ketchikan, Territory of Alaska

Application November 14, 1941, Serial No. 419,213

5 Claims. (Cl. 144—144)



1. In a machine of the class described, a horizontally disposed elongated oar supporting structure, means to secure an oar thereon in horizontal position with the blade of the oar standing on edge, and oar beveling mechanism constructed and arranged to travel along opposite sides of said blade, and means to adjust said supporting structure vertically under travel of said mechanism comprising rotary cams spaced apart longitudinally of said structure and supporting the same, an arm operatively connected to one cam for swinging movement to rotate the cam and interposed in the path of travel of said mechanism, and devices connecting said cams for rotation in unison.

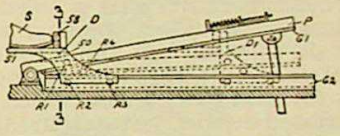
2,330,385

ACCELERATOR PEDAL DEVICE

George A. Rubissow, New York, N. Y.

Application August 30, 1940, Serial No. 354,891

9 Claims. (Cl. 74—513)



1. In combination with the accelerator pedal of a vehicle, a first guide-means rigidly affixed in respect to the floor and having at least one runway provided aside of the longitudinal symmetry axis of said pedal, a second guide-means being rigidly affixed with respect to the said pedal and having at least one track aside of the longitudinal symmetry axis of said pedal, said runway and said track being operatively interconnected with each other through the intermediary of a third means, said third means being able to operatively interconnect the said track and said runway during its displacement along said accelerator pedal and a pusher-member attached to the said third means, whereby when said pusher-member is pushed to and fro, said accelerator pedal is actuated.

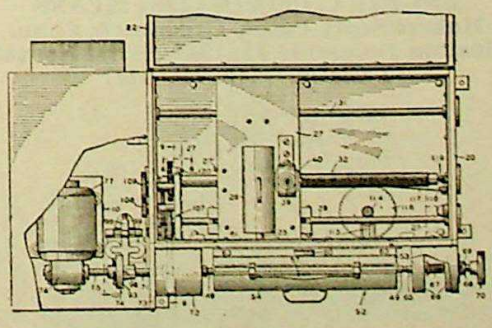
2,330,386

PHOTOGRAPHIC FACSIMILE RECORDER

Maurice A. Rudd, North Plainfield, and Everett V. Mott, Metuchen, N. J., and Lewis H. Rovere, Brooklyn, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

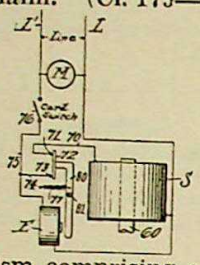
Application February 1, 1941, Serial No. 376,964

15 Claims. (Cl. 178—13)



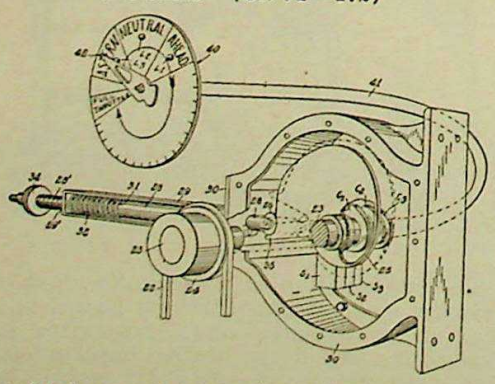
1. The combination in a facsimile machine of a scanning mechanism, a cabinet therefor, a recording drum mounted on a supporting shaft, a housing for said drum having openings in the end walls through which said shaft extends loosely, and means for preventing the entrance of light into said housing through said openings including a disc on said shaft adapted to extend into a radially extending slot in the housing wall loosely receiving said disc.

2,330,387
ELECTRICALLY OPERATED WORKMAN'S TIME RECORDER
Alfred Ruttiman and Henry N. Deane, Gardner, Mass., assignors to Simplex Time Recorder Co., Gardner, Mass., a corporation of Massachusetts
Application April 1, 1939, Serial No. 265,554
1 Claim. (Cl. 175—335)



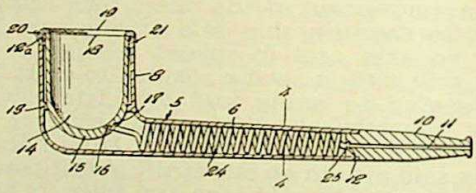
In a mechanism comprising a solenoid coil, a solenoid plunger actuated thereby, an electric circuit for said solenoid coil and a control switch for said electric circuit, that improvement in control devices for said mechanism which comprises a normally closed auxiliary switch in said solenoid circuit, an electromagnet having a coil of substantially greater resistance than said solenoid coil, an armature for said electromagnet connected to said auxiliary switch and effective to open said auxiliary switch and to break said solenoid circuit when said magnet coil is energized and to maintain said solenoid circuit open until said control switch is opened, and an electric circuit for said magnet coil having the same source of current supply as said solenoid coil and initially operative in parallel with the circuit through said solenoid coil and auxiliary switch when said control switch is closed, said two circuits being thus simultaneously completed in parallel by closing said control switch but said magnet circuit being entirely free from control by said auxiliary switch, and said electromagnet from its greater resistance having an inherent delayed and slower action in comparison with the action of said solenoid coil when both are thus simultaneously energized, by reason of which delayed and slower action said solenoid circuit is opened by said electromagnet only after said control switch and the separate but parallel magnet and solenoid circuits have all been closed for a predetermined time interval.

2,330,388
ENGINE CONTROLLING MEANS
Hubert Scott-Paine, Greenwich, Conn.
Application December 11, 1941, Serial No. 422,469
1 Claim. (Cl. 74—472)



In a high-speed power boat having an engine provided with a speed-controlling throttle and a reversible drive assembly which affords "ahead" and "astern" propulsion for said boat, said engine being remote from the bridge, control means for affording the pilot direct control of the engine throttle comprising, a pilot's control box having a shoulder, a throttle-control lever pivoted for rotation thereabout and movable through a high speed "ahead" range on one side of said shoulder and through slow speed "ahead" and "astern" ranges on the other side thereof, a manually operable detent normally preventing passage of said lever past said shoulder by engagement therewith while permitting free movement on either side thereof, driving gear operated by said lever, a cam shaft adjacent the engine rotated by said gear, a throttle-control cam fixed on said shaft, a cam-follower resiliently held against said cam but capable of being withheld from contact therewith, means for operatively connecting the cam-follower with said throttle whereby movement of the cam-follower toward the cam-shaft opens the throttle, and manually adjustable means for limiting the throttle-opening movement of the cam-follower independently of the position of the cam whereby maximum engine speed can be controlled independently of the pilot, the said cam being so shaped and positioned as to close the throttle when said lever is between the "ahead" and "astern" ranges and open it by a limited amount through the "astern" range and progressively open it to full throttle through the "ahead" range.

2,330,389
SMOKING PIPE
Charles J. Smith, Schenectady, N. Y.
Application October 22, 1941, Serial No. 416,099
1 Claim. (Cl. 131—217)

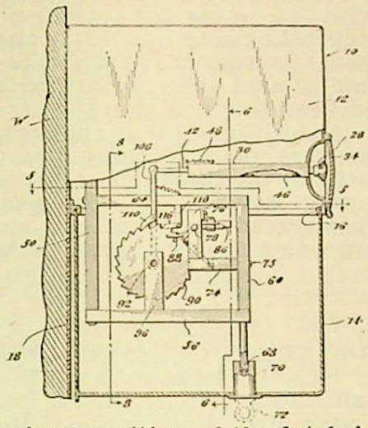


A smoking pipe comprising a tubular relatively thin walled body, said body being formed to provide an elongated stem and a bowl receptacle of substantially cylindrical shape, a bit plugged into the outer end of said stem, a removable bowl seated in said bowl receptacle, interior projections in said receptacle supporting the bowl in spaced relation to the walls of said receptacle, and a smoke cooling pipe extending through said stem and connecting the inner end of said bit and the lower part of said bowl, said smoke cooling pipe comprising a helical coil tube having one end inserted in the bore of the bit and its opposite end inserted in an opening formed in the bowl, said coil being substantially overlength so as to be longitudinally compressed and tensioned between the bowl and the bit by insertion of the bit in the outer end of the stem.

2,330,390
SERVICE TERMINATOR
Rulo Wayne Smith, Auburn, Ind.
Application February 23, 1940, Serial No. 320,498
3 Claims. (Cl. 194—9)

1. A service terminator comprising a pair of normally closed cooperating electrical contact members, a rocker shaft having a pair of pins projecting therefrom, one of said pins being adapted to actuate one of the cooperating contacts for disengaging the same and opening a circuit, resilient means associated with the rocker shaft for affecting this movement, a coin set detent adapted to engage the other pin in a prede-

termined position to prevent rotation of the rocker shaft and the disengagement of the contact member, and a clock operated elongated latch bar having a notch therein which notch in a



predetermined position of the latch bar receives the last named pin upon release by the detent to open the cooperating electrical contact member.

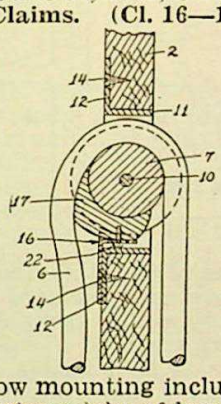
2,330,391

SASH PULLEY BRAKE

William G. Smith, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application June 30, 1941, Serial No. 400,546

3 Claims. (Cl. 16—194)



1. In a window mounting including sash structure and a counterweight of less weight than the sash structure, a cable connected to the counterweight and to the sash structure, a pulley rotatable in the upper portion of the window mounting and having the cable trained thereover to support the sash structure on the cable in vertically movable relation whereby the sash structure tends to overbalance the counterweight, a support having a surface disposed in the mounting below the pulley in spaced relation to the latter, and a brake shoe wedgeably mounted between the support surface and the pulley, said support having means for guiding the shoe on the surface thereof, a portion of the brake shoe having an outer surface over which the cable is bulged for instituting the wedging action of the shoe between the support surface and pulley in response to movement of the cable over the pulley in one direction.

2,330,392

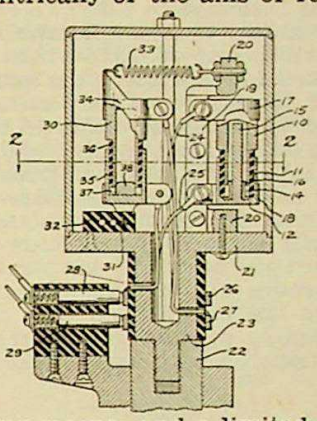
CENTRIFUGALLY OPERATED MERCURY SWITCH

Joseph H. Staley, Columbus, Ind.

Application December 16, 1939, Serial No. 309,524

8 Claims. (Cl. 200—80)

1. A mercury tube switch for centrifugal operation comprising a constant diameter tubular metallic envelope; a rod-like electrode insulatedly supported by the envelope and extending axially into and along substantially the entire length of the envelope; a ceramic breaker formed as an annulus to surround said electrode; said breaker being located at one end of the envelope; means for revolving the switch; means mounting the switch with its axis fixed substantially parallel to and eccentrically of the axis of revolution of



said revolving means; and a limited quantity of mercury in said envelope; whereby said mercury may tend to form a globular mass at any position along said envelope beyond said breaker and normally be in contact with said electrode to complete a circuit between the electrode and the envelope, and upon revolution of the switch bodily with axis parallel to the axis of revolution, said mass will flatten and withdraw from said electrode contact.

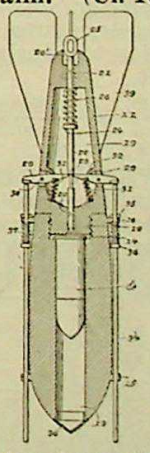
2,330,393

BOMB

Henry Stieb, Berkey, Ohio

Application July 12, 1941, Serial No. 402,199

1 Claim. (Cl. 102—2)



In a bomb of the character described, a body having an axial bore opening through the front thereof, a missile mounted in the said bore, a charge for projecting the said missile through the bore and the front of the body, a firing pin slidably mounted in the rear portion of the body and operable to fire the charge, a spring yieldingly urging the firing pin to charge firing position, a pair of pivoted levers mounted on the body releasably engaging the pin, spring means acting to hold the levers against the pin to retain the latter in retracted non-firing position, a pair of operating rods slidably mounted at the sides of the body, the said rods disposed to protrude forwardly of the body and operable to en-

gage the levers to swing the same to firing pin releasing positions, and springs yieldingly holding the said rods in extended non-releasing positions.

2,330,394

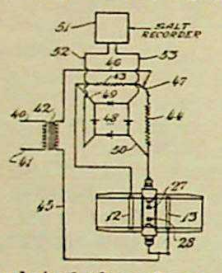
DETECTION OF SALT IN DRILLING FLUIDS

Robert W. Stuart, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application July 25, 1940, Serial No. 347,570

4 Claims. (Cl. 175—182)

2. Apparatus for measuring the salt content of drilling mud comprising a body member having an inlet and an outlet for said drilling mud, a pair of ring shaped electrodes received within said body member and insulated from each other by said body member, said ring shaped electrodes presenting interior surfaces substantially flush with the inner surface of said body member, a tubular insulator mounted between said ring shaped electrodes with its axis substantially perpendicular to the axis of said body member for holding a sample of liquid in indirect heat exchange relationship with said drilling mud and



electrically insulated therefrom, a second pair of electrodes within said last-mentioned means, means for measuring the relative electrical resistances across said pairs of electrodes, said last mentioned means including a bridge circuit having the resistances between said pairs of electrodes as two arms thereof, means for supplying an alternating current to said bridge circuit, means for rectifying the output of said bridge circuit, and means for measuring and recording said rectified output.

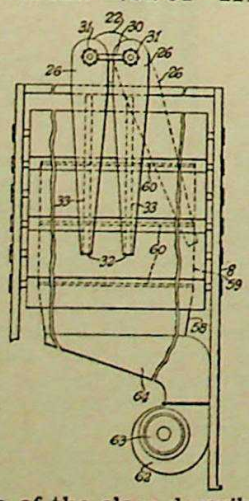
2,330,395

BLUEPRINT DRIER

Harry Hewes Sullivan, Rochester, N. Y., assignor to Paragon Revolute Corporation, Rochester, N. Y., a corporation of New York

Application October 10, 1938, Serial No. 234,203

3 Claims. (Cl. 34—114)



1. A machine of the class described comprising a frame, a series of drums rotatably mounted in parallel relation in said frame for guiding sheet material in a given path, a pair of nozzles, each connectable to a source of drying medium and provided with an elongated opening therein, means for supporting said nozzles in angular relation in a plane substantially parallel to portions of the surface of said sheet with their adjacent ends located near the medial transverse axis of said drums and with their other ends respectively near the margins of said sheet whereby said nozzles diverge in the direction of movement of said sheet, said nozzles being supported with their openings directed toward said sheet, and means for adjusting the angularity between said nozzles.

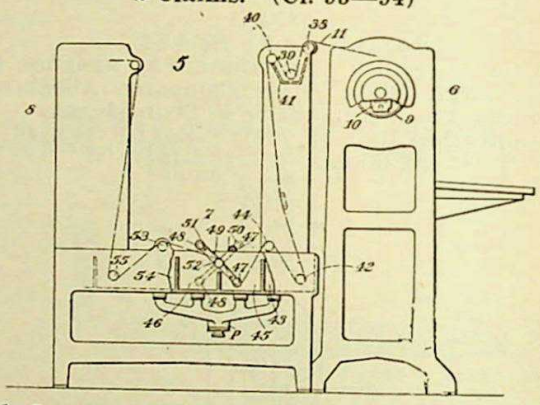
2,330,396

MACHINE FOR PROCESSING LIGHT-SENSITIVE SHEETS

Harry H. Sullivan, Rochester, N. Y., assignor to Paragon Revolute Corporation, Rochester, N. Y., a corporation of New York

Original application October 10, 1938, Serial No. 234,203. Divided and this application October 22, 1942, Serial No. 463,014

2 Claims. (Cl. 95—94)



1. In a machine of the class described a frame having supporting means mounted therein, a plurality of liquid-containing troughs supported by said means, rollers mounted in said frame above said troughs, one of said rollers being in fixed position at one side of said troughs and above the same, a second roller being mounted in said frame to dip in the middle trough, a third roller being mounted to dip in an end trough and a fourth roller being pivotally mounted to dip into and out of the remaining trough, said last mentioned roller having a handle and a locking device to hold it in different positions of adjustment.

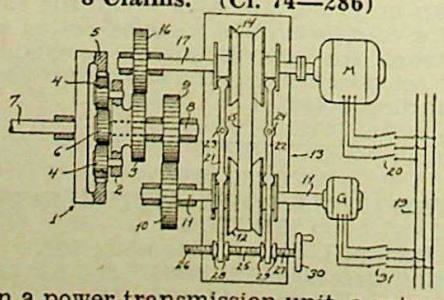
2,330,397

VARIABLE-SPEED POWER UNIT

Lev A. Trofimov, Willoughby, Ohio

Application March 16, 1942, Serial No. 434,809

8 Claims. (Cl. 74—286)



1. In a power transmission unit, a rotary power supplying motor, a variable speed ratio power

transmitting device connected to the motor, a differential gearing comprising three elements, namely, a spider element having pinions rotatably supported thereby and a pair of differential gear elements meshed with the pinions, one element being arranged to be connected to a load to be driven, the motor being connected to another element to rotatively drive it, and the third element being constrained to rotate at a speed determined by the variable speed ratio power transmission device, means to adjustably vary the speed ratio of the device, and a second motor connected to the said third element and connected to a motor power source and of a type having a speed at which it transmits no power to the said third element, and higher speeds at which it absorbs power from the third element and lower speeds at which it supplies power to the said third element, and caused to rotate at said speeds by adjusted speeds of the third element.

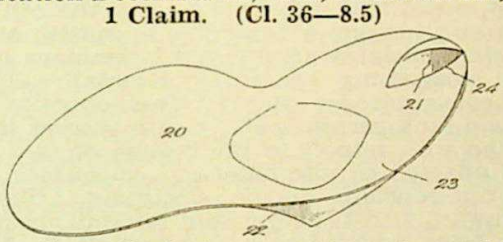
2,330,398

ARCH SUPPORT

Stephen Vass, New York, N. Y.

Application December 10, 1941, Serial No. 422,353

1 Claim. (Cl. 36—8.5)



An orthopedic device comprising in combination a resinous body defined by arch supporting surfaces, at least one highly foraminous and readily flexible metallic reinforcing member embedded therein, a toe-separator mounted on the upper face of said resinous body, and a transverse metatarsal bar mounted on the lower face of said body, said metatarsal bar being so constructed and arranged as to oppose the tendency of the foot to displace as a unit laterally in the shoe and being adapted to maintain the foot in a position in which the corrective influence of the toe-separator remains effective.

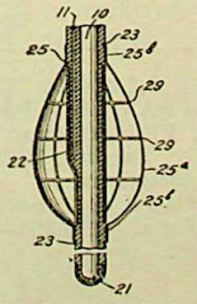
2,330,399

DISTENSIBLE BAG CATHETER

George L. Winder, Cuyahoga Falls, Ohio, assignor to American Anode, Inc., Akron, Ohio, a corporation of Delaware

Application September 11, 1937, Serial No. 163,422

10 Claims. (Cl. 128—349)



1. A distensible bag catheter comprising an integral tubular rubber structure comprising a drainage tube having an eyelet adjacent the distal end, a duct extending through the wall of said structure from an opening therein near the eyelet, a distensible bag about said structure over said opening whereby the bag may be distended by injection of fluid through said duct and opening, said distensible bag being formed with molded means for promoting uniform distension of the bag, and a collapse-resisting reenforcement associated with said tubular structure in the region of the distensible bag.

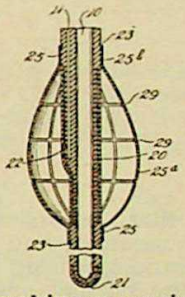
2,330,400

METHOD OF MAKING DISTENSIBLE BAG CATHETERS AND THE LIKE

George L. Winder, Cuyahoga Falls, Ohio, assignor, by mesne assignments, to American Anode, Inc., Akron, Ohio, a corporation of Delaware

Original applications September 11, 1937, Serial No. 163,422, and August 9, 1939, Serial No. 289,242. Divided and this application November 12, 1942, Serial No. 465,310

3 Claims. (Cl. 18—58)



1. A method of making a surgical appliance or similar article, which comprises producing a rubber tube, wrapping a local circumferential region of the tube with a fibrous collapse-resisting reinforcement, treating at least a portion of the fibrous element with material adapted to prevent adhesion of a liquid rubber composition, coating the assembly with a liquid rubber composition whereby a distensible bag is produced about the tube, and providing means for distending the bag.

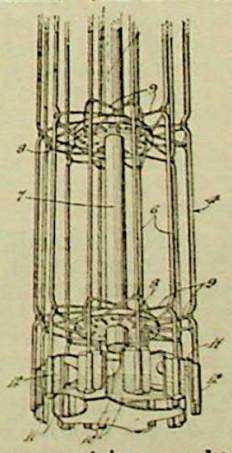
2,330,401

CATHODE

Arthur K. Wing, Jr., Chatham, N. J., assignor to Radio Corporation of America, a corporation of Delaware

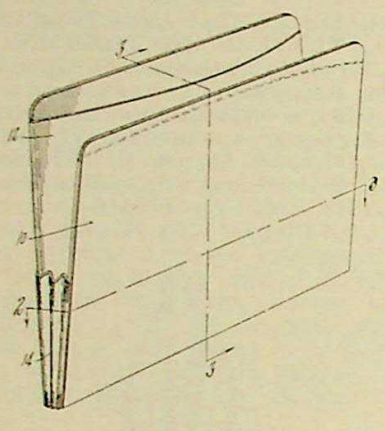
Application September 12, 1942, Serial No. 458,078

9 Claims. (Cl. 250—27.5)



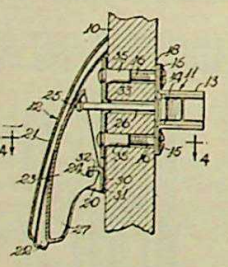
2. A cathode comprising a plurality of cylindrically arranged straight filament rods, a supporting post coaxial with the cathode and terminating short of one end of the cathode, brace wires insulatingly attached to said rods and to said filament rods, and a thin sheet metal connector in a plane perpendicular to said post and spaced from the end of the post, flexible legs of the connector being electrically and mechanically connected to the ends of said filament rods.

2,330,402
MULTIPLE FILING POCKET
Maurice Winokar, Chelsea, Mass., assignor to Federal File Envelope Co., Inc., Boston, Mass., a corporation of Massachusetts
Application September 1, 1942, Serial No. 456,858
2 Claims. (Cl. 129—16.7)



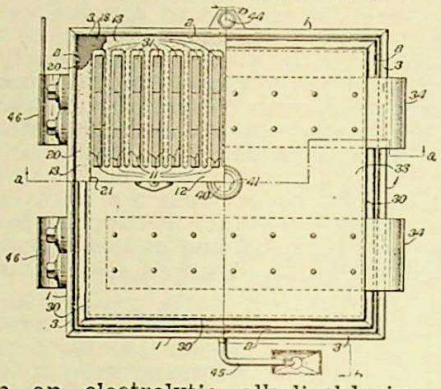
1. A multiple filing pocket comprising a front member, a rear member, and a corrugated bellows element connecting said members and extending along the bottom edges and a portion of each of the side edges thereof, each said member comprising a flattened tube of stiff sheet material open at the top and bottom, the bottom of each said member being disposed in the outermost corrugations of said bellows element.

2,330,403
CATCH ASSEMBLY
Earl Borchers, Rockford, Ill., assignor to American Cabinet Hardware Corporation, Rockford, Illinois, Rockford, Ill., a corporation of Illinois
Application May 8, 1940, Serial No. 333,885
6 Claims. (Cl. 292—1)



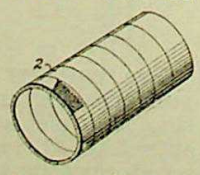
5. For use in a catch assembly for a closure wherein a catch is mounted on the inner face thereof, a handle assembly comprising a hollow body portion having a pair of spaced side walls and a pair of longitudinally extending flanges bent toward each other and being adapted to lie in contact with the outer face of a closure, a base for said handle loosely but permanently retained inside of said handle along the inner face of said flanges before being secured to the closure thus permitting adjustment of the handle relative to the base during mounting thereof on the closure, said base being adapted to be rigidly secured to the outer face of the closure by means used in securing the catch and thereby engage said flanges and rigidly clamp the handle in place, and passages through said base and between said flanges for receiving said catch and handle securing means.

2,330,404
ELECTROLYTIC ALKALI CHLORINE CELL
Samuel L. Burns and Martin Chesterfield, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
Application September 4, 1940, Serial No. 355,346
6 Claims. (Cl. 204—257)



1. In an electrolytic alkali-chlorine cell, a cathode assembly comprising an open, liquid-tight, metal tank adapted to carry the cell current and housing a foraminous, caustic alkali-resistant, metal structure, said foraminous structure comprising spaced, horizontally-aligned, cathodic electrodes extending from opposite sides of said tank perpendicularly with respect thereto and with respect to the bottom of said tank and adapted to alternate and co-operate with chlorine-resistant anodic electrodes extending downwardly from above; said foraminous structure being adapted to be covered on its anode facing surfaces with permeable, chlorine-resistant diaphragm material, each of said cathodic electrodes comprising a top wall, an inner end wall and two side walls and being open at its bottom and outer end, the spaces between adjacent cathodic electrodes being bridged at their bottoms and outer ends, the outer edges of said top walls and upper edges of the outer bridge walls being conductively joined through fitted filler strips to the rim of said tank, the lower edges of the inner cathodic electrode end walls and inner edges of the bottom bridge walls being conductively joined to a central fitted filler member similarly joined to similar edges of opposite cathodic electrodes, joining all the cathodic electrodes into a unitary structure having discontinuous bottom and side walls paralleling the bottom and side walls of said tank with corridors between into which the cathodic electrodes may freely deliver products of electrolysis through their open bottoms and ends; and means for withdrawing gaseous and liquid products of electrolysis from said corridors.

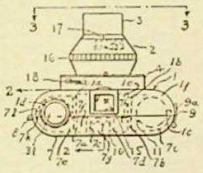
2,330,405
POWER TRANSMISSION BELT
Richard Y. Case, Philadelphia, Pa., assignor to L. H. Gilmer Co., Tacony, Philadelphia, Pa., a corporation of New Jersey
Application April 14, 1941, Serial No. 388,540
6 Claims. (Cl. 154—4)



2. The method of making an endless power transmission belt, comprising a carcass and a

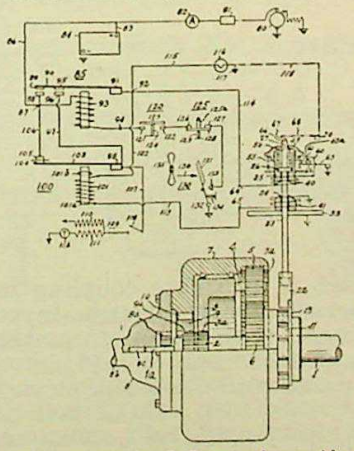
wrapper, which consists in forming an endless tubular body of straight cut woven or knitted material having a predetermined diameter and normal ultimate capacity of elongation, then processing the body to effect its shrinkage and reduce its diameter and to give it an ultimate capacity of elongation greater than its ultimate capacity of elongation before shrinkage, then dividing the body into endless jacket bands of a desired width or widths, and then stretching and wrapping a band so formed about and fixing it to a suitably formed endless carcass.

2,330,406
MINIATURE CAMERA
Charles A. Clarke, New York, N. Y.
Application September 25, 1940, Serial No. 358,328
1 Claim. (Cl. 95—31)



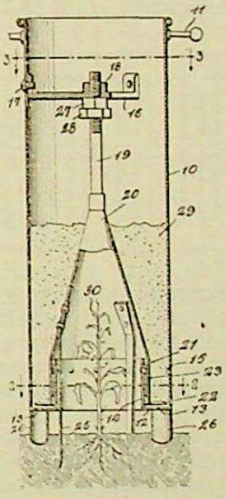
In a miniature camera, a rectangular case, a hinger cover on said case, a latch on said cover engaging a lug on said case, the ends of said case and cover rounded into each other, means interlocking the cover with the case, said case partitioned into three compartments comprising two relatively small film compartments and a lens compartment, the partitions of said lens compartment flush with the dividing line between said case and cover, partitions in the said cover compartment registering in spaced relation to the partitions in the case, a knob with a split shaft projecting into one of the film compartments, said knob provided with means for rotation in one direction only, a fast lens and a shutter mounted on the centerline of said lens compartment and a reflector finder mounted on the top of said case directly over the centerline of said lens.

2,330,407
OVERDRIVE CONTROL SYSTEM
Edward M. Claytor, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 16, 1939, Serial No. 290,356
38 Claims. (Cl. 74—290)



1. An overdrive control for automotive vehicles comprising the combination of a current source, a solenoid for controlling the sun-gear-locking pawl of an overdrive mechanism, a main control relay for controlling the circuit between the current source and the solenoid, engine ignition apparatus, a measured time relay having normally closed contacts controlling the circuit between the current source and the ignition apparatus said contacts being opened upon energization of the magnet coil of said measured time relay, normally open contacts closed by the main control relay and operative when closed to complete a circuit between the current source and ignition apparatus independently of the contacts of the measured time relay, normally open contacts closed by the main control relay and operative when closed to complete a circuit between the current source and the magnet coil of the measured time relay, and means for controlling the circuit between the current source and the magnet coil of the main control relay.

2,330,408
FERTILIZATION OF SMALL PLANTS
Jacob Austin Cover, Modesto, Calif.
Application September 7, 1942, Serial No. 457,562
6 Claims. (Cl. 111—1)

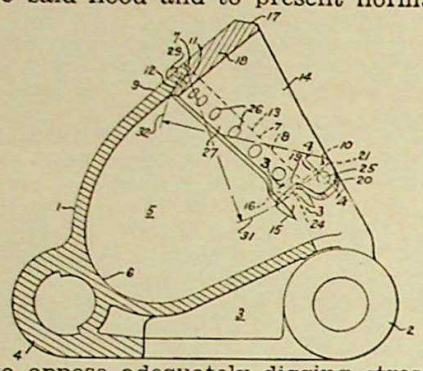


1. A drill device for the purposes described comprising a receptacle having an outer wall and having a bottom formed with a central opening therethrough and an upstanding inner wall around said opening spaced from said outer wall, said bottom having a plurality of openings therethrough, and a canopy element set within the receptacle and having a base wall overlying the said inner wall, ground-engaging anchor spades fixed on the canopy and extending downwardly clear of the receptacle, means to support the receptacle for free rotation relatively to the canopy, agitator means carried by the canopy adjacent said openings for the purposes described, and means to position the device around a plant and to rotate the receptacle.

2,330,409
REPLACEABLE LIP DREDGE BUCKET
John Crouch, Natoma, Calif.
Application January 17, 1942, Serial No. 427,153
9 Claims. (Cl. 37—141)

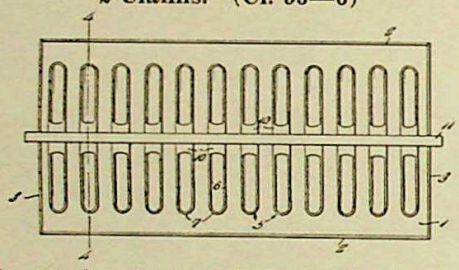
6. In a dredge bucket having a hood and a removable lip, means for relating said lip to said hood, comprising male and female surfaces formed peripherally about said lip and within said hood; a rim face on said hood, and an outer seat on said lip, for respective engagement; inner and outer engaging surfaces terminally formed on said lip, and stop lugs and rim shoulders

formed on said hood for respective engagement arranged to permit straight line entry of said lip into said hood and to present normal faces



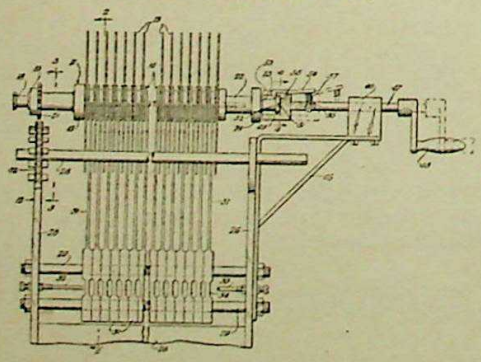
so as to oppose adequately digging stresses encountered.

2,330,410
BAKER'S SHEET
Rene E. Cyr, Lewiston, Maine
Application July 7, 1941, Serial No. 401,367
2 Claims. (Cl. 53—6)



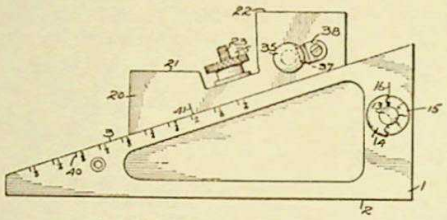
1. In combination, a baker's sheet for rolls including end walls, and relatively lower side walls, a mold unit comprising a plurality of elongated flat hollow members, and means to suspend said members from said end walls to extend laterally across said sheet in longitudinally spaced relation and upright position and with the bottoms thereof substantially level with the upper edges of said side walls to mold elongated shallow pockets with closed ends in dough baked in said sheet.

2,330,411
RECORD BLANK SUPPORTING ARBOR AND ASSEMBLY DEVICE
Lawrence E. Dettle, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application June 27, 1941, Serial No. 400,137
11 Claims. (Cl. 91—60)



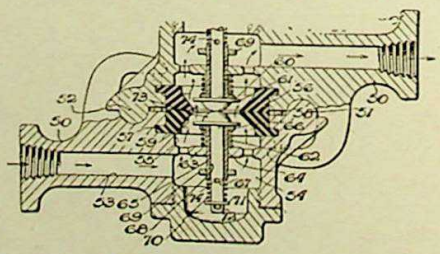
1. In a device of the class described, means for supporting a plurality of centrally apertured disc-like members in spaced relationship to each other, means for supporting centrally apertured spacer members between said disc-like members, whereby the apertures in all of said members will be aligned with each other to enable passage of an arbor therethrough, means rotatably engageable with said arbor to retain said members thereon, and means removably engageable with said retaining means for rotating the same relative to said arbor.

2,330,412
PLANER GAUGE
Lester H. Dierking, Detroit, Mich., assignor to Edward H. Kramer, Detroit, Mich.
Application July 27, 1942, Serial No. 452,466
5 Claims. (Cl. 33—162)



1. A planer gauge comprising a body having its upper side longitudinally inclined, a screw mounted for rotation upon said body having its axis parallel with said upper inclined side, means for rotating said screw, a block longitudinally slidable upon said inclined upper side having at least one bearing face thereon, a screw engaging member mounted for movement upon said block having partial threads thereon to engage said screw, means normally holding said partial threads in engagement with the screw whereby rotation of the latter moves the block along said upper side, said member being transversely slotted and one side of said slot being inclined to the member axis, and a release pin mounted for movement in said block and extending through said slot, said pin having an inclined face formed thereon to coact with the inclined face of the slot whereby upon movement of the pin in one direction the member is moved and its partial threads are disengaged from the screw.

2,330,413
FLUID COUPLING
Wilfred A. Eaton, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Application March 2, 1942, Serial No. 433,073
11 Claims. (Cl. 284—10)



1. In each of two hose coupling members for a fluid pressure brake system, in combination, an inlet port, a chamber communicating with said port, an outlet port in said chamber provided with a resilient ported gasket, a valve member cooperating with said gasket to normally close said gasket port, said valve member being adapted to move inwardly to allow passage of fluid pressure through said gasket port upon completion of hose coupling, an abutment including a centrally located bore formed in said

chamber, a sleeve slidably mounted in said bore, a valve stem of said valve slidably mounted in said sleeve and extending beyond the end of said sleeve, a flange on one end of said sleeve adapted to abut the inner face of said valve member, a spring mounted upon and surrounding said sleeve, said spring being interposed between said flange and said abutment, means mounted upon said sleeve for limiting the outer movement of said sleeve whereby said valve is normally urged to a position closing the port of said gasket, and means mounted upon said valve stem whereby said valve is allowed to move outwardly beyond said gasket upon uncoupling of said hose coupling members to first allow pressure to be exhausted from said chamber and then to return to a position coincident with said gasket to close the port in said gasket.

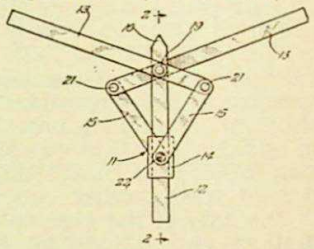
2,330,414

BISECTOR

Edward E. Elwert, Galesburg, Ill., assignor to W. C. Dillon & Company, Inc., Chicago, Ill., a corporation of Illinois

Application June 30, 1941, Serial No. 400,393

6 Claims. (Cl. 33—64)



1. A device for bisecting any angle having its vertex defined by a vertical pole, comprising a member engageable at one end with said pole, sighting means pivotally mounted on said member and movable respectively into alignment with the sides of the angle, and links pivotally connected to said sighting means and pivotally and slidably connected with said member to move the latter in response to such movements of the sighting means into alignment with the line bisecting said angle.

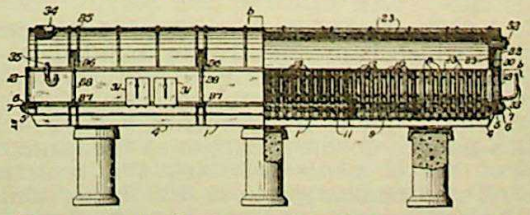
2,330,415

ELECTROLYTIC ALKALI CHLORINE CELL

John A. Flynn and John W. Ingersol, Tacoma, Wash., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York

Application September 11, 1940, Serial No. 356,338

6 Claims. (Cl. 204—257)



1. In an electrolytic alkali chlorine cell, a cathode assembly comprising a flat, normally level, rectangular, liquid-retaining, metal plate frame structure, having end and side members adapted to carry the cell current, and housing an inner, foraminous, caustic alkali-resistant metal structure comprising a plurality of tubular, parallel, spaced, horizontally aligned, cathodic electrodes, each comprising a top wall, a bottom wall and two flat side walls and having its ends conductively fixed each to the inner surface of one of the side walls of said frame structure, adjacent cathodic electrodes being separated by clear spaces open at top and bottom and adapted to alternate and co-operate with upright, flat-sided, chlorine-resistant anodic electrodes projecting upwardly from below, said foraminous structure being adapted to be covered on its anode facing surfaces with permeable, chlorine-resistant diaphragm material, and means for withdrawing gaseous and liquid products of electrolysis from the interior of said cathodic electrodes.

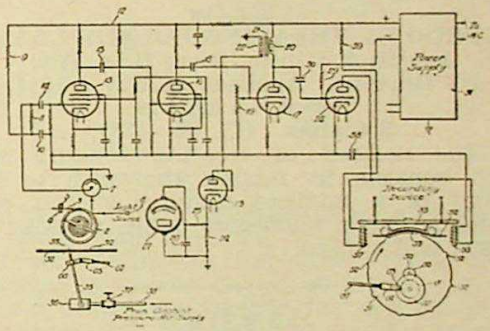
2,330,416

TIMING APPARATUS FOR CLOCKS AND WATCHES

Thomas B. Gibbs, Chicago, Ill., assignor to George W. Borg Corporation, Chicago, Ill., a corporation of Delaware

Application February 10, 1940, Serial No. 318,382

17 Claims. (Cl. 73—52)



1. Apparatus for use in regulating the rate of an oscillating balance-wheel, comprising means for applying driving impulses to the wheel at the frequency to which the same is to be regulated, and means for detecting when the oscillations of the wheel reach the maximum amplitude as the associated hairspring is adjusted, said last means including electrical means for generating voltages having a value which is proportionate to the speed of said wheel.

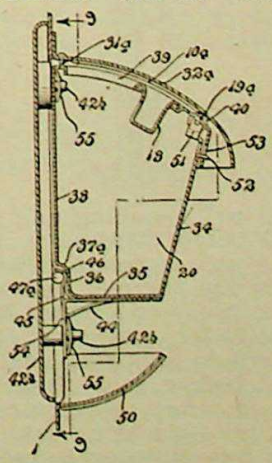
2,330,417

ASH RECEIVER

Edward Gillisse and Cornelius Hendricks, Grand Rapids, Mich., assignors to Applied Arts Corporation, Grand Rapids, Mich., a corporation of Michigan

Application December 18, 1939, Serial No. 309,782

14 Claims. (Cl. 206—19.5)



1. In an ash receiver structure, a vertical support having a receptacle receiving opening there-

in, means across the opening below the center thereof on which a receptacle may be mounted for tilting movement, a receptacle having an opening at its upper side, a spring member attached to the bottom of the receptacle adjacent the rear part thereof and extending forwardly and bearing upon said mounting means at its forward free end portion, a stop located adjacent the upper end of said opening, a second and downwardly movable stop carried at the upper part of and adjacent the rear of said receptacle, and a cover plate connected with the support and extending rearwardly therefrom underneath which the receptacle is adapted to pass, the distance between the forward free end of said spring member and the bottom of the receptacle when it is mounted upon the mounting means being less than the distance that the second mentioned stop normally projects above the lower end of the first stop, as and for the purposes specified.

2,330,418

METHOD OF TREATING FOUNDRY SANDS

Joseph A. Gitzen, River Hills, Wis.

No Drawing. Application May 2, 1941, Serial No. 391,576

3 Claims. (Cl. 22—188)

1. The method of treating foundry sands which consists in mixing therewith a small amount of a mixture comprising iron oxide, chromium oxide, aluminum oxide, metallic aluminum, and carbon.

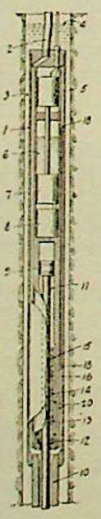
2,330,419

OIL WELL PUMPING UNIT

Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application April 28, 1941, Serial No. 390,782

16 Claims. (Cl. 103—45)



1. In an oil well pumping unit, a reciprocating crude oil pump disposed vertically at the bottom of the well, a reciprocating fluid motor disposed above the pump, a common piston rod connecting the pump and motor for driving the former by the latter, a substantially closed circuit for power fluid to operate said motor, packing means encircling said piston rod between said motor and pump to substantially prevent leakage of power fluid along said rod from the motor, means for returning leakage power fluid from an intermediate point in said packing means to the power fluid circuit on the exhaust side of the motor, and means including said crude oil pump for maintaining a fluid pressure below said packings which is at least equal to the fluid pressure of said leakage power fluid to prevent leakage of the latter beyond said intermediate point in the packing.

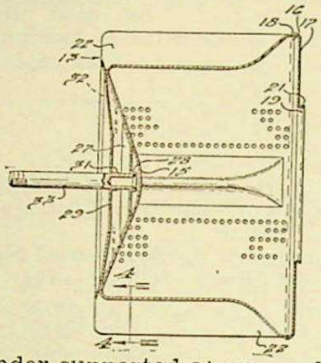
2,330,420

CYLINDER

Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware

Application August 7, 1939, Serial No. 288,742

5 Claims. (Cl. 68—142)



1. A cylinder supported at one end and having a central opening in the opposite end including, in combination, an element having a cylindrical wall with an enclosing wall at one side dished inwardly, a pair of spaced plates disposed within the dish of said wall having central apertures aligned with the axis of the element, and a shaft having a hollow end extending through said apertures and secured rigidly thereto with the hollow end spaced from the dished wall.

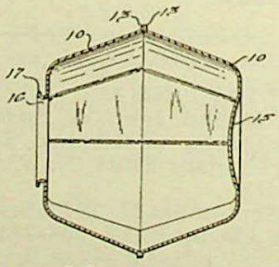
2,330,421

CYLINDER CONSTRUCTION

Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware

Application February 27, 1941, Serial No. 380,876

2 Claims. (Cl. 68—144)



1. A drum formed from a pair of like elements, each of which is pressed from a metal sheet and having frustoconical side wall portions between which portions inwardly formed ribs extend, the small end of one of the elements, being provided with a flanged opening, flanges at the large open end of the elements following the contour of the rib and conical portions which are abutted and welded to produce a unit construction.

2,330,422

MACHINE FOR TREATING EGG WHITES, ETC.

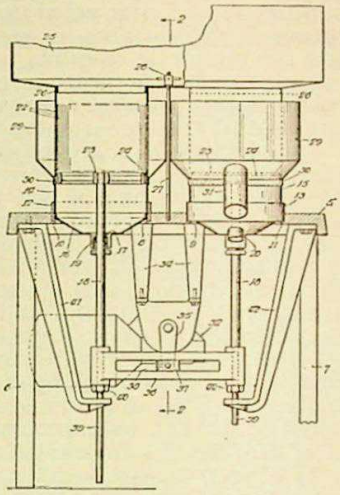
James Milton Hansen, Park Ridge, Ill.

Application April 15, 1940, Serial No. 329,754

5 Claims. (Cl. 210—151)

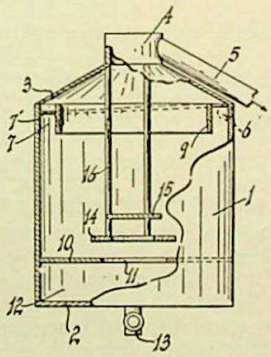
1. An egg straining apparatus comprising a straining cylinder having longitudinally running

slots in the wall thereof, said slots being of such dimensions as to block the passage of the chalaza of the eggs and fragments of shell of appreciable size, the edges of said slots which first encounter



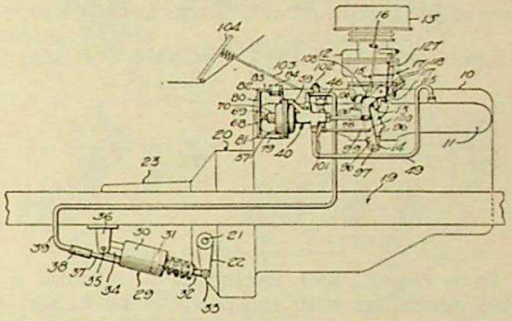
the egg white being smoothed to avoid cutting the chalaza, a wiper extending transversely across the receiving ends of the slots but not into the slots and traveling lengthwise of said slots along the surface of said cylinder, and means to reciprocate said wiper.

2,330,423
SEPARATOR
Ray W. Hart, Long Beach, Calif.
Application December 29, 1941, Serial No. 424,728
2 Claims. (Cl. 209—211)



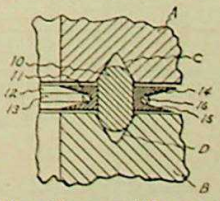
1. A separator comprising a housing, a cap extending upwardly from the top of said housing centrally thereof and provided with a side outlet, an inlet pipe extending at a tangent to a side of said housing and registering with an inlet opening formed through the side of the housing at the top thereof, an annular wall in the upper end of said housing spaced from sides thereof and constituting an inner side wall of an inlet passage with which the inlet pipe communicates, a top wall for the inlet passage extending spirally about the annular inner wall and constituting a deflector for directing incoming liquid in a spiral path downwardly through the inlet passage and the housing toward the bottom of the housing, a diaphragm mounted horizontally in said housing upwardly from the bottom thereof and formed with an opening at its center, rods extending vertically in said housing with their upper ends secured to the top thereof in spaced relation to each other circumferentially of the cap, a horizontal baffle ring at lower ends of said rods spaced upwardly from said diaphragm, said ring being of greater diameter than the opening in the diaphragm and formed with a center opening of less diameter than the said opening of the diaphragm, and a solid baffle plate secured to said rods and supported horizontally thereby over the opening of the baffle ring in vertical spaced relation thereto.

2,330,424
CLUTCH CONTROL MECHANISM
Edward G. Hill and Henry W. Hey, Richmond, Va., assignors to Hill Engineering Corporation, Richmond, Va., a corporation of Virginia
Application December 10, 1940, Serial No. 369,498
31 Claims. (Cl. 192—.01)



1. A clutch control mechanism for a motor vehicle power plant including an engine, a clutch, a carburetor, a throttle and an accelerator pedal, comprising a power device connected to said clutch, a control mechanism for said power device, connections between said accelerator pedal and said throttle and said control mechanism, said connections being constructed and arranged to at least partially deenergize said power device through said control mechanism upon initial depression of the accelerator pedal and prior to the opening of the engine throttle, to release the clutch elements for movement toward operative engagement, means constructed and arranged to be automatically operated under predetermined conditions, and means for utilizing operation of said last named means for causing said accelerator pedal to initially open said throttle at an earlier point with relation to the initial depression of the accelerator pedal from its fully released position.

2,330,425
PACKING RING
Lewis D. Hilton, Houston, Tex.
Application December 22, 1941, Serial No. 423,936
3 Claims. (Cl. 285—139)



1. The combination with a pair of members having flat surfaces adapted to be fastened together with the surfaces contiguous to each other of a sealing means including, a metallic ring engaging within an annular channel formed in said contiguous surfaces and movable to a sealing position when the surfaces are drawn together, an elastic ring interposed between the surfaces and disposed concentrically adjacent the metallic ring, the elastic ring having annular flared lips formed on its peripheral surface farthest from

said metallic ring to provide an intermediate groove, and means within the groove for distorting the lips into engagement with said contiguous surfaces and for maintaining said elastic ring in close proximity to the metallic ring.

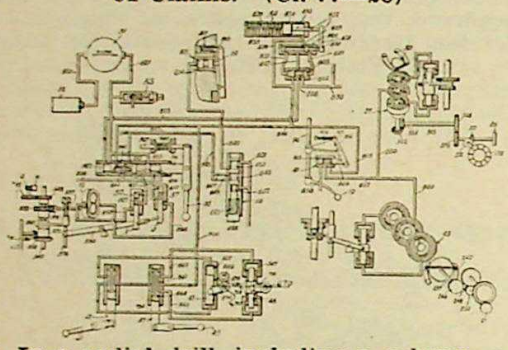
2,330,426

RADIAL DRILL

William G. Hoelscher, Norwood, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio

Application October 5, 1938, Serial No. 233,448

61 Claims. (Cl. 77—28)



8. In a radial drill, including a column, a rotatably mounted arm adapted to be raised and lowered on said column, a drill head translatably mounted on said arm, clamp means for fixing said arm against rotative movement, clamp means for fixing said arm against elevating movement, a transmission for raising and lowering said arm, and a clutch for controlling said transmission, the combination of; shafts disposed along and journaled on the arm, one of said shafts operating said clutch and said clamp for locking said arm against elevation, and the other shaft operating said clamp means for preventing rotative arm movement, a cylinder element mounted on the head and traversed by said shafts, plungers in said cylinder element, said plungers connected to respective shafts by means of yoke arms, hydraulic connections to said plunger cylinders and, valves for controlling the operation of said plungers, said hydraulic means contained entirely within said drill head.

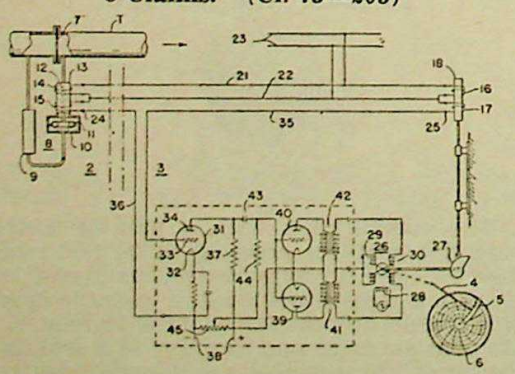
2,330,427

TELEMETRIC CONTROL SYSTEM

Anthony J. Hornfeck, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application March 23, 1940, Serial No. 325,630

8 Claims. (Cl. 73—205)



1. A telemetric system, comprising in combination, a primary and a secondary circuit, a source of alternating current for energizing the primary circuit, means normally magnetically coupling said circuits at a first point and a second point so that equal voltages are induced in said secondary circuit at said points and said secondary circuit is in balance, means responsive to the magnitude of a variable for increasing the magnetic coupling at said first point upon change in the magnitude of the variable in one sense and for decreasing the magnetic coupling at said first point upon change in the magnitude of the variable in opposite sense to thereby unbalance said secondary circuit and produce a potential in said secondary circuit having a phase relative to the phase of the alternating current source depending upon the sense of change in the magnitude of the variable, a pair of electron discharge devices each having, a cathode, a grid and a plate, a source of alternating current for energizing the plate circuits of said devices, said plates arranged to have opposite polarity, means coupling said secondary circuit to the grids of said electron discharge devices so that one or the other of said devices is rendered conducting depending upon the phase of the potential in said secondary circuit, and means controlled by the current in the plate circuits of said devices for varying the magnetic coupling between said primary and secondary circuits at said second point to rebalance said secondary circuit.

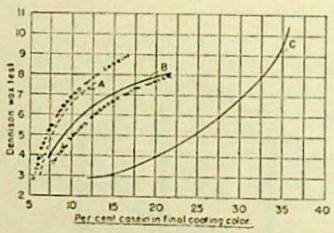
2,330,428

MANUFACTURE OF CALCIUM CARBONATE-ADHESIVE COATINGS

Ausker E. Hughes, Wyandotte, Harold B. Browne, Trenton, and Howard F. Roderick, Grosse Isle, Mich., assignors, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

Application October 28, 1940, Serial No. 363,154

7 Claims. (Cl. 106—148)



5. The method of making calcium carbonate-adhesive coating base comprising the steps of mixing together finely-divided, non-colloidal, chemically precipitated calcium carbonate, adhesive and water wherein the water content is not over 30% of the total amount of calcium carbonate and water present, said adhesive being selected from the group consisting of casein and alpha protein, and then kneading such mixture to produce a homogeneous mixture of high plasticity, such selected adhesive being present in an amount substantially less than that required for a predetermined adhesive value as determined by the Dennison wax test in the final coating wherein such calcium carbonate and water alone in the same amounts are subjected to an equivalent kneading.

2,330,429

VOLTAGE CONTROL APPARATUS

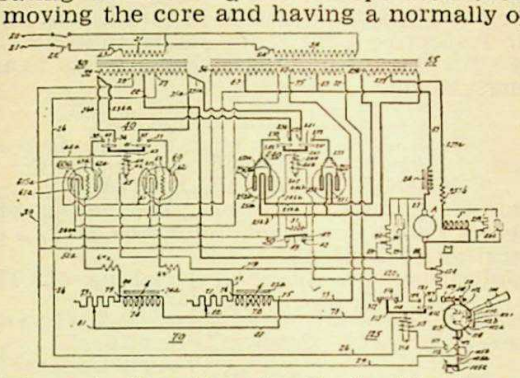
Raouel B. Hull, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application February 13, 1942, Serial No. 430,769

2 Claims. (Cl. 172—179)

2. Apparatus for controlling the speed of a D. C. motor having an armature and field, an

A. C. source, means connected with the A. C. source for supplying a rectified current to the motor field, means connected with the A. C. source for supplying a rectified current to the motor armature, apparatus for varying the voltage of the rectified current supplied to the armature and including a variable inductive reactor having a movable core, a relay having a magnet coil and armature and two switches controlled by the armature, one being normally closed and the other normally open when the magnet coil is deenergized, and a controller having a movable operating handle and means operated thereby for moving the core and having a normally open



switch controlling the circuit of said relay magnet coil and means responsive to movement of the handle to low voltage position for closing said switch of the controller whereby the normally closed switch and normally open switch of the relay are respectively open and closed, means responsive to the opening of the normally closed relay switch for rendering inoperative the means which supplies rectified current to the motor armature, and an armature resistance load established by the closing of the normally open relay switch.

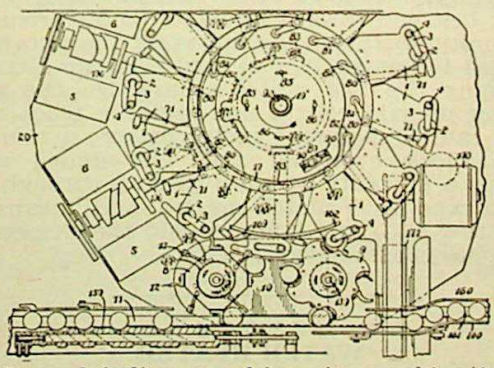
2,330,430

LABEL AFFIXER

James Kantor and Edward Rosenberg, Chicago, Ill., assignors to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware

Application July 22, 1941, Serial No. 403,560

24 Claims. (Cl. 216—13)



1. In a labeling machine, in combination, a rotary table, a plurality of container holders disposed about the periphery of said table in equal spaced relationship, a plurality of label-applying devices arranged in series and beyond the circumference of said table and each including a magazine for supporting a stack of labels, an oscillating picker arranged to move to and from said magazine and means for applying adhesive to the face of said picker, means for moving each of said pickers radially in and out of the path of the containers, the movement of said pickers being timed to move the pickers in the container path successively to provide a relatively long interval of time between the movement of each picker into the bottle path, a plurality of label holding fingers, one for each container holder pivotally carried on said table to swing on axes vertical to said table, and a plurality of label holding operating means, one for each picker, timed with its label picker to swing a label holder on its axis into engagement with the container when the container receives a label from a picker, and means for wiping the applied label on to the container during the rotation of the table.

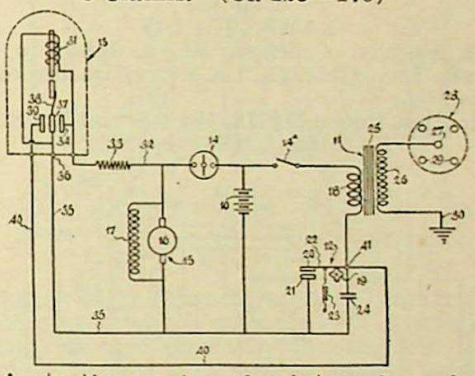
2,330,431

IGNITION SYSTEM

Paul Klotsch, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio

Application March 7, 1941, Serial No. 382,119

3 Claims. (Cl. 123—179)



1. A starting system for internal combustion engines comprising a source of electromotive force, a primary ignition coil, a vibrator coil and a starting motor all connected in parallel with said source, mechanical means for making and breaking the circuit through said primary ignition coil and vibrator contacts connected across said means said contacts being in circuit with and actuated by said vibrator coil upon energization of said motor.

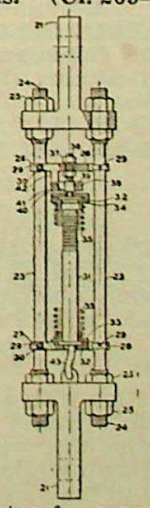
2,330,432

WEIGHT INDICATOR

Francis N. Fossati, El Cerrito, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application February 6, 1942, Serial No. 429,797

3 Claims. (Cl. 265—1)



1. A weight indicator for a well drilling system comprising a pair of parallel elongated members

connected together at their outer ends and adapted to be connected in the weight supporting system of a drilling rig; means forming a pair of spaced abutments intermediate the ends of said members each said abutments spanning the elongated members and being pivotally connected at each of its ends thereto; an extensible and contractible force responsive means positioned between said abutment means, so constructed and arranged as to be responsive to a predetermined elongation and contraction of said parallel elongated members between their pivotal connections to said abutments, the longitudinal axes of said elongated members and said force responsive means lying in a single plane, said force responsive means being coaxial with the direction of the force applied to said indicator; and an indicating means for said force responsive means.

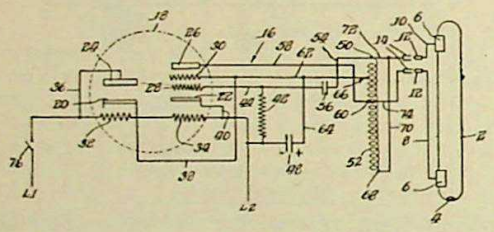
2,330,433

LAMP CIRCUIT

Frank Furedy, Chicago, Ill., assignor to Sun-Kraft, Inc., Chicago, Ill., a corporation of Illinois

Application December 16, 1940, Serial No. 370,271

8 Claims. (Cl. 176—124)



2. A high frequency oscillating circuit for energizing a gaseous discharge tube comprising an electronic tube having plate, cathode and grid electrodes, a source of voltage, an induction coil having a portion between spaced taps connected to one of said plate and cathode electrodes and one side of said source, the other of said plate and cathode electrodes being connected to the other side of said source, another portion of said induction coil being connected to said first portion and to one of said grid and cathode electrodes, and an output circuit from said coil to said gaseous discharge tube and in which said gaseous discharge tube is connected in series with both of said portions of the induction coil.

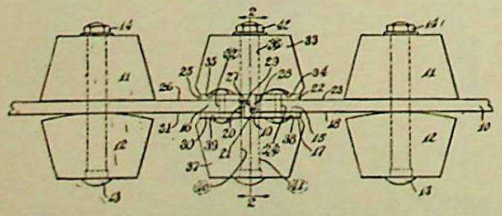
2,330,434

BELT SPLICE

Archie E. Lazzell, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana

Application April 10, 1942, Serial No. 438,385

7 Claims. (Cl. 24—37)



4. The combination with a belt band of means for joining the ends thereof comprising a metal plate secured to the inner surface of one end of said band, projecting materially beyond said band end substantially in the plane of said inner surface, and provided at its extremity with a lip projecting toward the outer surface of said band, a stiffener plate secured to the outer surface of said band end, means mutually engaging said first plate and said stiffener plate to secure the same to said band end, a second metal plate secured to the outer surface of the other end of said band, projecting materially beyond said other band end substantially in the plane of said outer surface, and provided at its extremity with a lip projecting toward the inner surface of said band, a second stiffener plate secured to the inner surface of said other band end, means mutually engaging said second metal plate and said second stiffener plate to secure the same to said other band end, the surfaces of said lips adjacent their respective band ends being mutually engaged, and means holding said plate lips against disengagement.

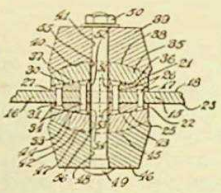
2,330,435

WEDGE-PLATE BELT SPLICE

Archie E. Lazzell, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana

Application April 10, 1942, Serial No. 438,386

9 Claims. (Cl. 24—37)



9. The combination with a belt body of means for securing together the ends of said body comprising a pair of metal wedge plates secured to one end of said belt, said plates being associated respectively with the two surfaces of said belt end and each extending transversely of said belt end and diminishing in thickness from its edge adjacent the extremity of said belt end toward its edge remote from said extremity, a second pair of metal wedge plates secured to the other end of said belt, said second pair of plates being associated respectively with the two surfaces of said other belt end and each extending transversely of said other belt end and diminishing in thickness from its edge adjacent the extremity of said other belt end toward its edge remote from said extremity, metal means engaging the two plates secured to one surface of said belt, metal means engaging the two plates secured to the other surface of said belt, a non-metallic block overlying said first-named metal means, a non-metallic block overlying said last-named metal means, a plurality of bolts passing through said blocks and said metal means, and means cooperating with said bolts to hold the elements of the splice in assembled relation.

2,330,436

WATER HEATER

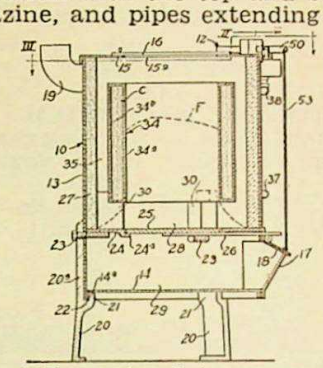
Sam P. Locke, Mexico, Mo.

Application February 19, 1941, Serial No. 379,557

4 Claims. (Cl. 122—156)

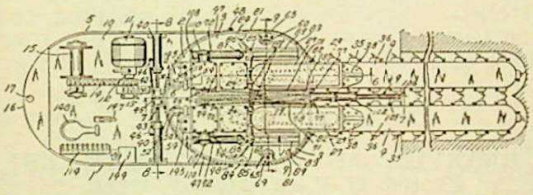
2. A water heater comprising a casing, a grate ring mounted in said casing above the bottom thereof, refractory bricks mounted in spaced relation to each other on said grate ring, said refractory bricks having cut out inner upper corners, a hollow walled open ended tubular member mounted in the cut out corners of said bricks terminating above the grate ring and below the top of the casing, said tubular member providing a fuel magazine with its inner face

and cooperating with said casing to provide an annular flue around the outer face thereof in communication with the top and bottom of the fuel magazine, and pipes extending through the



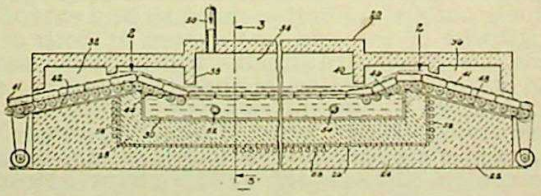
side walls of the casing into communication with the chamber provided by the hollow walled member, for circulating water through the chamber.

2,330,437
MINING APPARATUS
George W. Lovely, Auburn, Ill., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application July 9, 1941, Serial No. 401,601
26 Claims. (Cl. 262—29)



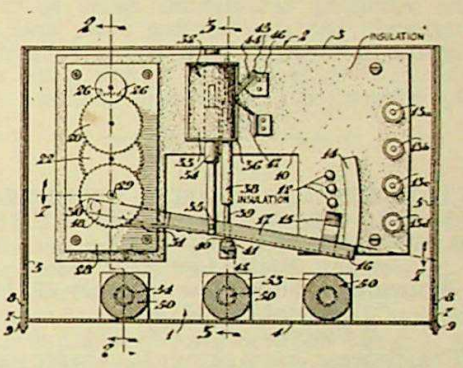
15. In a mining apparatus, the combination comprising a portable base, a pair of cooperating cutting devices pivotally mounted on said base to swing in common planes toward and from one another, and means for independently tilting said cutting devices to move the latter into relatively inclined planes.

2,330,438
APPARATUS FOR SINTERING POWDERED METALS
Cecil A. Mann, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 17, 1941, Serial No. 379,167
4 Claims. (Cl. 13—23)



2. A sintering furnace comprising in combination, a tunnel like structure, conveyor means extending part way only into the furnace at the ingress and egress ends thereof, an intermediate portion separating said conveying means and adapted to act as a container for molten metallic material, whereby articles introduced into the furnace on the ingress end conveyor means are delivered into the molten material in the intermediate portion and are pushed therethrough by subsequent articles being introduced into the furnace, said articles after passing through the intermediate portion being removed from the molten material by the egress end conveyor means and ejected from the furnace, and spaced electrical connections in said immediate portion and adapted to be connected only by said metallic material whereby the resistance of the material itself raises the temperature thereof when current is passed from one said connection to the other.

2,330,439
SWITCH MECHANISM
Fred Mason, Covington, Ky., assignor to Nutone Chimes Inc., New York, N. Y., a corporation of New York
Application January 26, 1940, Serial No. 315,858
1 Claim. (Cl. 200—90)

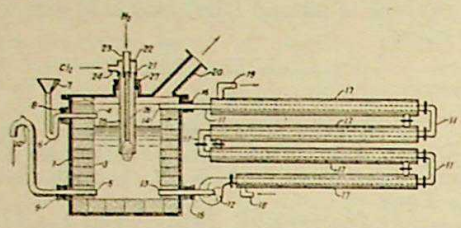


A switch mechanism for a signal comprising a plurality of contacts arranged in spaced relationship, an arm pivotally mounted and having a portion thereof arranged to engage said contacts consecutively, a clockwork escapement mechanism including a ratchet wheel operatively associated therewith, a pawl carried by said arm for engaging said ratchet wheel, whereby movement of the arm in one direction is controlled by the escapement mechanism through engagement of the pawl with said ratchet wheel, with said arm being free to move in the opposite direction independently of the escapement mechanism, a solenoid for moving the arm across the contacts in that direction in which the arm is independent of the escapement mechanism, a switch comprising a movable element and a stationary element, one of which is in circuit connection with said solenoid, a link member having abutments thereon positioned to be engaged respectively by said arm as it approaches the terminal contacts at each end of the series of contacts, the said link member in turn arranged to actuate said movable switch element, the said switch normally being closed when the arm has traversed the series of contacts under control of the escapement mechanism, and the said switch being opened by movement of the said link when the arm is at the opposite end of said contact.

2,330,440
METHOD AND MEANS FOR PRODUCTION OF AQUEOUS HYDROGEN CHLORIDE
Aylmer H. Maude, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York
Application February 1, 1941, Serial No. 377,072
9 Claims. (Cl. 23—156)

1. The method of synthesizing hydrogen chloride and effecting immediate absorption of the hot product to produce aqueous hydrochloric acid of commercial concentration, which comprises bringing gaseous elemental hydrogen and chlorine together and causing them to react in an open

mouthed combustion chamber submerged in a body of the acid and in direct heat transfer relation therewith through walls of material substantially inert with respect to the acid and of good heat conductivity and high heat resistance; caus-



ing the resulting combustion flame to impinge directly upon the surrounding acid; and maintaining the acid everywhere at not substantially less than 10° C. below the boiling point of the acid by effective circulation and cooling.

2,330,441

ELASTIC TENSION CLOTH SPECIFICALLY ADAPTED TO MUSICAL INSTRUMENTS, AIR MOTORS, AND AIRPLANES

Herman Mieth, Louisville, Ky.

No Drawing. Application February 28, 1942, Serial No. 432,800

2 Claims. (Cl. 117—68)

1. The process of making an elastic tension cloth which consists of first impregnating a silk fabric with a solution of rubber in a solvent selected from the group consisting of turpentine, petroleum benzine, carbon disulfide, and ether, then drying the impregnated fabric, then applying to one side of the dried fabric a solution consisting of 10 parts by weight of turpentine, 2 parts ether, 5 parts alcohol, 5 parts beeswax, and 5 parts of camphor, and finally drying the second coating.

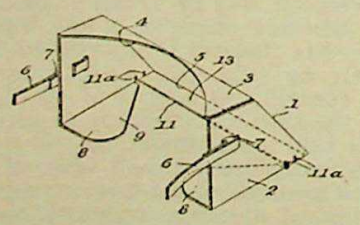
2,330,442

GOLF PLAYER'S MASK

Joseph E. Nero, Portland, Maine

Application March 5, 1941, Serial No. 381,805

5 Claims. (Cl. 2—12)



1. A mask to be worn by a golf player to visually present the factors determinative of the accuracy of the swing of a golf club in hitting a golf ball, said mask comprising a top and side portions, and a sharply pitched front portion, the rear edge of said top portion being curved to fit the brow of the wearer, and inwardly disposed supports carried at the rear of each of said side portions adjacent its bottom edge for engagement with the cheeks of the wearer adjacent the cheek bones, said mask establishing a focal area inclusive of the ball when the player is properly positioned to hit it, said front portion including a straight edge constituting a visible border for said area parallel to the desired line of flight of the ball, and a narrow cross member carried by said side portions rearwardly of said straight edge in a position out of contact with the nose of the player establishing a second visible border for said area in parallel with said first straight edge and spaced from said front portion.

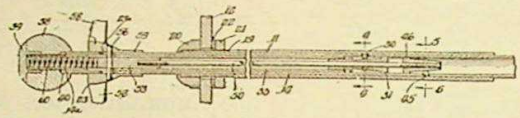
2,330,443

CONTROL MECHANISM

Calhoun Norton, Chicago, Ill., assignor to Arens Controls, Inc., Chicago, Ill., a corporation of Illinois

Application May 28, 1941, Serial No. 395,559

15 Claims. (Cl. 74—503)



1. A control mechanism comprising a frame sleeve adapted to be secured to a support, an operating member shiftable within the frame sleeve and adapted to be connected to a device to be controlled, and a plurality of holding means for releasably holding the operating member from movement with respect to the frame sleeve, each of said holding means comprising a control member shiftable within the frame sleeve and having an inclined cam surface, and a holding element controlled by said surface and adapted to be thrust thereby into engagement with the interior surface of the frame sleeve.

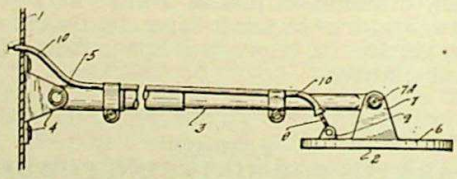
2,330,444

REARVIEW MIRROR FOR VEHICLES

Everett O. Park, Albany, Oreg.

Application April 16, 1941, Serial No. 388,746

2 Claims. (Cl. 88—93)



1. A rear vision mirror for vehicles, comprising an arm attached at its inner end to the vehicle body and extending outwardly therefrom, a mirror adjustably attached to the outer end of the arm in spaced relation to the exterior of the vehicle body, a conduit secured to and extending lengthwise of the arm and curved at both of its ends, a control wire slidable within said conduit and attached at one of its ends to the mirror and terminating at its opposite end within the vehicle, said conduit being adapted through the medium of its curved ends to frictionally engage the control wire in any of its mirror-adjusting positions.

2,330,445

KNITTED FABRIC

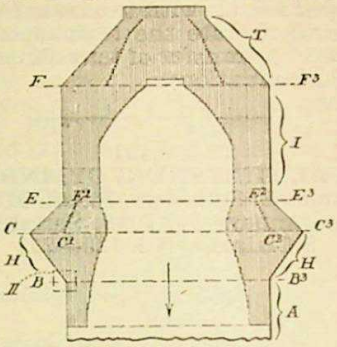
James Everett Patton, Shelbyville, Tenn., assignor to Davenport-Woosley Processing Corporation, Chattanooga, Tenn., a corporation of Tennessee

Original application August 12, 1941, Serial No. 406,458. Divided and this application May 30, 1942, Serial No. 445,162

21 Claims. (Cl. 66—187)

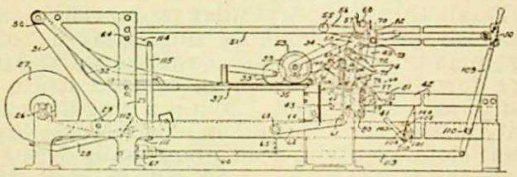
1. A flat straight-selvaged knitted fabric produced from two yarns, in which all the courses

are reinforced by interknitting of the two yarns except at end loops in alternate courses, which



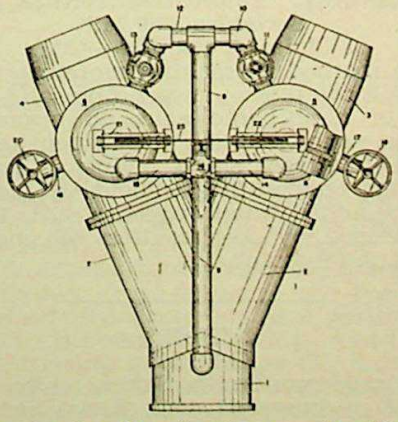
end loops are formed from one of the two yarns only.

2,330,446
APPARATUS FOR PRODUCING BAGS
Thomas E. Piazze, Milwaukee, and Roy E. Hanson, Wauwatosa, Wis., assignors, by mesne assignments to Simplex Wrapping Machine Co., Oakland, Calif., a corporation of California
Application September 12, 1938, Serial No. 229,472
5 Claims. (Cl. 93—18)



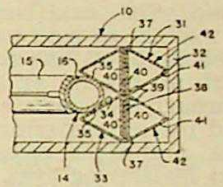
1. In combination, a table, means for folding the edge portions of a sheet of material being advanced along said table into overlapped position and for joining said edge portions to form a flat tube, a pair of members movable toward each other longitudinally of the tube and extending thereacross, one of said members being cooperable with one wall of the tube some distance from its free end and the other being simultaneously cooperable with the other wall to fold the free end of said walls over one of the walls, and means for fusing the folded end areas to said one wall and to each other.

2,330,447
HYDRAULIC GATE VALVE
Walter W. Posey, East Lampeter Township, Lancaster County, Pa.
Application December 27, 1940, Serial No. 371,943
4 Claims. (Cl. 137—144)



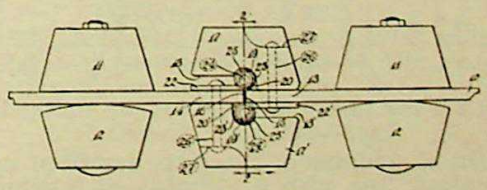
1. In a dredge line having a plurality of legs with closure means in each leg, means for actuating said closure means, said actuating means comprising a pipe line adapted to conduct pressure from said dredge line to operate said closure means, and flexible means connecting said plurality of closure means to facilitate the movement of said closure means.

2,330,448
PACKAGING MEANS FOR SHIPPING ARTICLES IN CONTAINERS
Lawrence W. Reaume, Monroe, Mich., assignor to River Raisin Paper Company, Monroe, Mich., a corporation of Michigan
Application May 6, 1940, Serial No. 333,662
12 Claims. (Cl. 206—46)



1. A package for a bicycle having a frame and having a wheel mounted on the frame at one end of the latter, said package comprising a container adapted to receive the frame and wheel of the bicycle, and means for supporting the bicycle in the container including a spacer positioned in the container between one end wall of the container and the adjacent portion of the wheel, said spacer having resilient divergent opposed wall portions respectively engageable with opposite sides of the adjacent peripheral portion of the wheel to hold the wheel against lateral shifting movement in the container and coacting with each other and with the peripheral portion of the wheel to urge the bicycle toward the opposite end wall of the container.

2,330,449
BELT SPLICE
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application March 30, 1942, Serial No. 436,815
9 Claims. (Cl. 24—33)



9. A driving belt comprising a flexible band and a series of transversely extending friction blocks secured thereto and connecting means for the ends of the belt comprising a block and a plate at one end of said belt, means passing through said band and engaging said block and said plate to secure the same to opposite surfaces of said belt end, said block projecting beyond said belt end a distance substantially equal to the dimension of said plate in the direction of belt length, said plate being formed, at its outermost extremity, to provide an eye arranged transversely of said belt upon an axis located substantially in the plane of the extremity of said belt end but spaced outwardly from that surface of the belt to which said plate is secured, said block being undercut in its surface adjacent said belt from its outer edge to a point spaced inwardly from said belt extremity, and

being formed, at the innermost edge of such undercut, with a part-cylindrical socket having its axis substantially parallel with said plate eye axis and spaced outwardly from that surface of said belt to which said block is secured by a distance substantially equal to the spacing of said plate eye axis from said first-named belt surface, a second block and a second plate at the other end of said belt, means passing through said band and engaging said second block and said second plate to secure the same to opposite surfaces of said other belt end, the construction of said second block and said second plate being respectively the same as the construction of said first block and said first plate, and said second block being secured to that surface of the belt to the which said first plate is secured while said second plate is secured to that surface of said belt to which said first block is secured, an eye on said first plate registering with an eye on said second block, a pin passing through said registering eyes, an eye on said second plate registering with an eye on said first block, and a pin passing through said last-mentioned registering eyes.

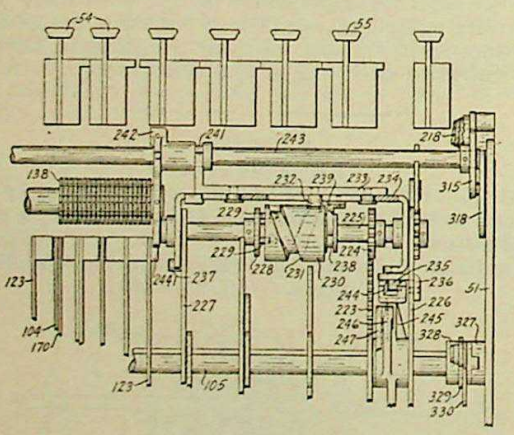
2,330,450

TRANSFER MECHANISM

William H. Robertson and Willis E. Eickman, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application September 25, 1941, Serial No. 412,346. Divided and this application August 24, 1942, Serial No. 455,840

5 Claims. (Cl. 235—6)



1. In a machine of the class described having a totalizer line with a plurality of interspersed denominational sets of totalizer wheels thereon, the combination of a single set of actuators common to all of the totalizer wheels; means to position the actuators; means, including a single set of transfer segments located interspersed adjacent the single set of actuators, for transferring tens digits from lower to higher denominations; means actuated by the lower order totalizer wheels when moving from nine to zero to trip the transfer segments of the next higher orders; shifting means to shift the totalizer wheels laterally to aline the selected set of said wheels, comprising one totalizer of said interspersed totalizers, with the actuators; means to engage the selected set of totalizer wheels with the actuators for actuation thereby and to disengage said set of totalizer wheels from said actuators; means to move one element of said shifting means to impart an auxiliary lateral shifting movement to the selected set of totalizer wheels, after the selected set of said wheels has been actuated, to aline said selected set of wheels with the transfer segments; and means to operate the tripped transfer segments to effect a transfer of tens digits from lower to higher denominations.

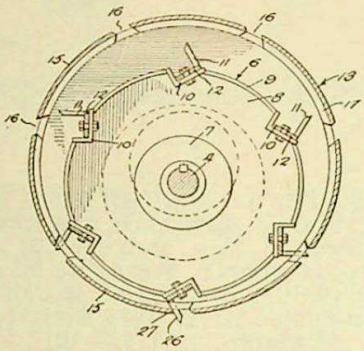
2,330,451

DUAL THRESHING CYLINDER

James E. Saunders, Sidon, Miss.

Application January 30, 1942, Serial No. 428,951

8 Claims. (Cl. 130—27)



1. Dual threshing cylinder comprising synchronously driven members, one being a hollow drum including end plates, longitudinal cleaning plates forming the periphery of said drum secured to said end plates, having a smooth cylindrical exterior contour and spaced to form longitudinal slots evenly spaced about said drum, an intermediate supporting ring within said drum having its outer periphery contacting said cleaning plates and being formed with relatively narrow portions intersecting said slots, the other member being a threshing bar cylinder within said drum having peripheral threshing bars parallel to said slots, said threshing bar cylinder being so eccentrically mounted and driven in such phase with respect to said drum as to cause said bars to project through said slots through a substantial arc of the circumference of said drum, said threshing bars being formed with notches affording clearance for the relatively narrow portions of said supporting ring.

2,330,452

METHOD OF MAKING MERCURIC NAPHTHENATE

Harold Schiller, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application April 28, 1941, Serial No. 390,749

3 Claims. (Cl. 260—431)

1. The method of making mercuric naphthenate which comprises: suspending solid mercuric acetate in naphthenic acids in approximately equivalent ratios; heating the suspension; adding water in relatively small quantity, and maintaining the temperature sufficiently high to vaporize the added water together with the acetic acid produced by the reaction of said acetate with said naphthenic acids.

2,330,453

GAUGE

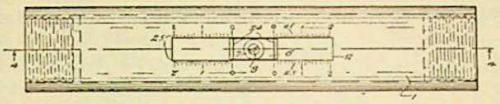
Charles Joseph Smith, Schenectady, N. Y.

Application August 27, 1942, Serial No. 456,393

3 Claims. (Cl. 33—199)

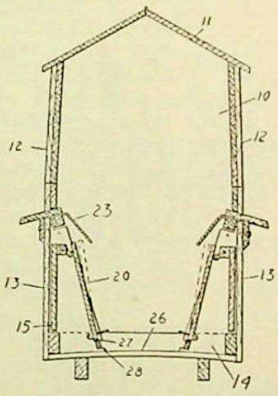
1. A device for depth gauging threaded bores

comprising a tubular casing, having a central longitudinal slot therein, a relatively shorter inner tubular section endwise slidable in said casing, a slide block fixed to said section in the transverse center thereof and slidably fitted in said slot for use as a thumbpiece manipulative to slide said section in the casing in limited degree in opposite directions, respectively, said block splining said section to the casing for unitary rotation of the casing and section by hand, a cylindrical externally threaded gauge plug mounted in



one end of said section for projection out of the casing by sliding of said section in one direction and to be turned into bores to be gauged under rotation of said casing and section in one direction, and one way ratchet connections between said section and plug forming a friction clutch, when said casing and section are rotated in said one direction and a positive interlocking clutch under rotation of said casing and section in the opposite direction.

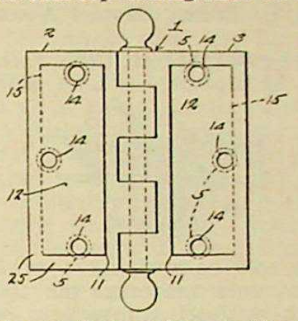
2,330,454
STOCK FEEDER
Frank A. Stafford, Villisca, Iowa
Application October 10, 1942, Serial No. 461,552
5 Claims. (Cl. 119—54)



1. In a stock feeder, a hopper, a trough positioned below the hopper, a door, hinged at its upper end, mounted within the walls of the hopper, an agitator pivotally mounted at its lower end and inclined at its upper end towards the hinged portion of the door and means whereby the movement of the door hinge will actuate the agitator.

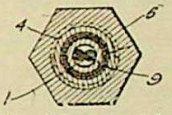
2,330,455
HINGE
Clyde E. Steckel, Allentown, Pa.
Application August 5, 1942, Serial No. 453,697
1 Claim. (Cl. 16—131)

In a hinge structure for barriers, a wing provided upon its inner surface with a single recess extended partway therethrough, the area of the recess being almost as large as the area of the wing and forming, in the wing, a rib extended unbrokenly around the recess, and a single leaf spring disposed at an angle to the base of the recess and secured along one edge portion to the wing, within the recess, the wing and the spring having registering openings for the reception of securing elements, the area of the spring being equal to the area of the recess, and the thickness of the spring being equal to the depth of the recess, whereby, under the action of securing elements in the openings, the spring may be housed in the recess, the exposed surface of the spring and the corresponding face of the rib then



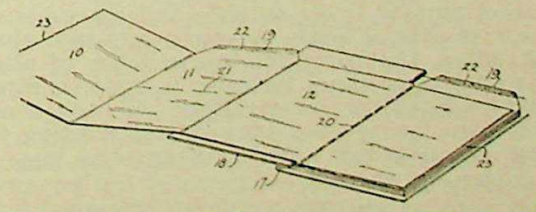
presenting a large, flat surface to the part whereunto the wing is attached, in the event that an offsetting of the spring with respect to said part is not necessary.

2,330,456
CABLE ANCHOR
Joseph F. Topinka, Cleveland, Ohio
Application March 13, 1943, Serial No. 479,138
2 Claims. (Cl. 24—124)



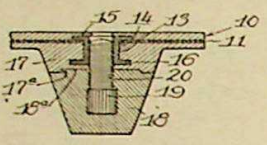
1. A wire strand cable provided at one end with an anchor comprising an externally threaded shank having a socket extending therein from one end thereof into which said cable is extended, a compression sleeve fitting around said cable and extending into said socket, said cable having strands at said end looped outwardly around one end of said sleeve and extending along the outside of the same longitudinally thereof to form anchoring strands, a soft metal bonding medium between the inner end of the socket and said end of the cable and between the wall of the socket and said strands and in which said strands are embedded, and a gland nut threaded onto said shank and bearing against the other end of said compression sleeve.

2,330,457
STATIONERY PACKAGE
Verne K. Tremblett, Oconomowoc, Wis., assignor to Paper Products, Oconomowoc, Wis., a corporation of Wisconsin
Application August 28, 1942, Serial No. 456,467
2 Claims. (Cl. 206—63)



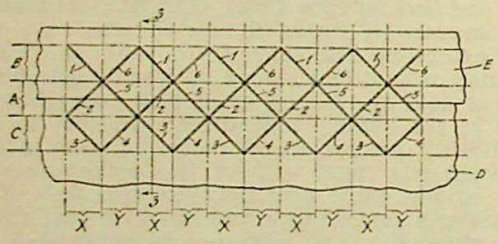
1. A package including a cover having a bite, a sheet of stationery secured in the bight of the cover and extending in the cover with the margins of the sheet of stationery, other than the margin in the bight, unbound and free, one of said free edges being deckle edged, and said sheet being provided with a line of hit-and-miss, irregular-shaped line cuts through the stationery adjacent the bight whereby upon severance of the sheet of stationery from the portion of the sheet secured in the bight to provide another deckle edge for the stationery sheet.

2,330,458
SHOE SOLE
Ira I. Tubbs, Mount Vernon, Iowa, assignor to Margaret L. Tubbs, Mount Vernon, Iowa, as trustee
Application September 11, 1940, Serial No. 356,241
12 Claims. (Cl. 36—59)



1. A shoe sole comprising a perforated plate and resilient sole material on the lower side thereof, calk-anchoring members each movably contacting the upper surface of the plate and extending downwardly through a perforation into embraced relation with said resilient sole material, and calks of resilient material each provided with means for engaging a calk-anchoring member for retaining the respective calk in compressive contact with the resilient material of the sole for cooperation with the latter in absorbing stresses imposed on the calks in directions tending to move the respective anchoring members relative to the plate.

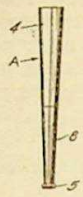
2,330,459
SHOE
Charles Tweedie, Jefferson City, Mo.
Application October 6, 1941, Serial No. 413,715
2 Claims. (Cl. 112—262)



1. A shoe comprising an upper material having a strip of elastic material secured thereto in edgewise abutting relation by a single line of stitching consisting of successive transverse zones of three stitches each that extend from one side of the abutting edges of said materials to the other side of said abutting edges, each of said transverse zones including substantially parallel outer stitches located directly opposite each other one on each side of said abutting edges and disposed at oblique angles thereto and a middle stitch connecting said outer stitches and extending at a reverse oblique angle thereto across said abutting edges, the corresponding stitches of alternate transverse zones inclining in opposite directions, each of the outer stitches of each transverse zone converging toward and meeting the outer stitch of an adjacent transverse zone at the outer end thereof.

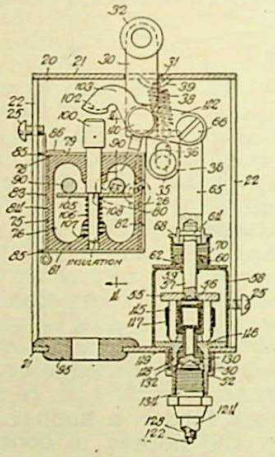
2,330,460
CIGARETTE AND CIGAR HOLDER
Harry E. Waldrip and Robert J. McMillan, St. Louis, Mo.
Application August 3, 1940, Serial No. 350,474
2 Claims. (Cl. 131—187)

1. A holder for smoking articles comprising a tapered tube rolled from a sheet of material, the entire wall of said tapered tube being made up of a plurality of thicknesses of said sheet of material, adhesive material applied to such portion of a surface of said sheet of material as to dispose said adhesive material only between all portions of the respective thicknesses of the sheet material in said wall and so that the entire inner surface of the holder is free from adhesive material, a bead formed of thermoplastic material applied to the smaller end of said tapered tube



to provide a mouthpiece, said bead being in embracing relation with respect to the end portion of the wall of said tapered tube at said smaller end thereof, and a coating of waterproofing material arranged on the outer and inner surfaces of the smaller portion of said tapered tube and on said bead.

2,330,461
SAFETY SWITCH
Clarence Wantz, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 31, 1941, Serial No. 395,956
14 Claims. (Cl. 175—335)



10. In a switch of the class described, in combination, a support, a reset member having rectilinear sliding movement on said support between resetting and projected positions, a lever having pivoted connection with said reset member intermediate its ends, a switch having contact means and a switch pin, first spring means for actuating said contact means and said switch pin to "on" position, said switch pin cooperating with said lever on one side of its pivotal connection with said reset member and constituting a fulcrum about which said lever is adapted to be rocked by resetting movement of said reset member, the cooperation of said lever with said switch pin holding said switch pin in open circuit position during the resetting operation, a reset stem having pivotal connection with said lever on the other side of its pivotal connection with said reset member, an electro-magnet adapted, when energized, to hold said reset member in reset position, a thermoelectric generator responsive to the heat of a flame and connected in circuit with said electromagnet, spring means stronger than said first spring means and operative to actuate said reset stem to retracted position and to swing said lever about its pivoted

connection with said reset member in a direction to actuate said switch pin and contact means to "off" position against the tension of said first spring means, an enclosing housing having an opening in the wall thereof, and an indicator arm on said lever and having indicator means visible through said opening to indicate the position of the switch.

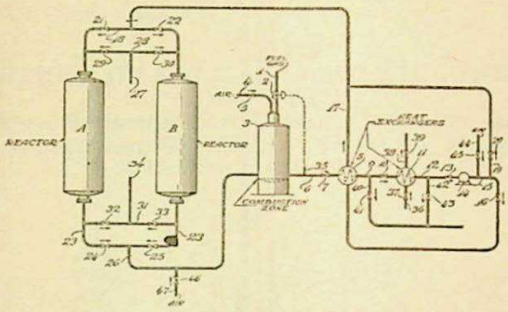
2,330,462

REGENERATION OF CONTACT MATERIALS

Jack N. Weiland, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application November 25, 1940, Serial No. 367,151

2 Claims. (Cl. 252—242)



1. A process for regenerating a solid catalyst contaminated with a carbonaceous deposit which comprises forcing a heated ovygen-containing gas through said catalyst to burn carbonaceous contaminants from the catalyst, withdrawing the resultant combustion products containing combustibles from the catalyst and adding an oxygen-containing gas thereto, substantially burning the combustibles together with added fuel in a combustion zone, varying the amount of said added fuel to maintain a substantially uniform temperature on the gases leaving the combustion zone, and returning combustion gases from said zone, together with oxygen, to the catalyst undergoing regeneration.

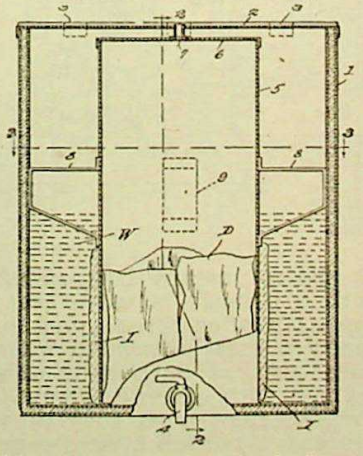
2,330,463

WATER COOLER

Harry C. T. Whittenberg, Louisville, Ky.

Application September 8, 1941, Serial No. 410,091

1 Claim. (Cl. 62—91.5)



A portable water cooler including an outer container having an apertured closure, an inner container for holding a refrigerant, a closure on the inner container and spaced from the closure on the outer container, said inner container being removably mounted in the outer container and adapted to be surrounded by drinking water, a tubular member extending from the closure of the inner container and through the aperture in the cover of the outer container, means carried by and removable with the inner container for holding the inner container centered within the outer container, and a faucet located for the withdrawal of substantially all the drinking water in the cooler, said inner container being positioned and proportioned to carry a sleeve of ice therearound sufficient in quantity to provide an effective holdover when a portion of the water is frozen and without interfering with withdrawal of the water through the faucet.

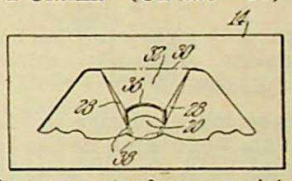
2,330,464

DISPENSING RECEPTACLE

Henry C. Atterbury, Norwich, Conn., assignor to Atlantic Carton Corporation, Norwich, Conn., a corporation of Connecticut

Application October 10, 1942, Serial No. 461,568

1 Claim. (Cl. 229—17)



A dispensing receptacle comprising in combination, side, end and bottom wall members forming a receptacle and upper outer and inner secured together end members closing said receptacle, the inner member having a trapezoidal shaped opening with a rear wide end adjacent the rear side of the receptacle and a front narrow end curving inwardly and slots extending forwardly at opposite sides thereof parallel with the sides of the opening, the outer member having a spout forming member consisting of an upper wall and side walls, the upper wall corresponding in shape to said opening and hingedly connected at a rear wide end to the outer member, the side walls each having side edges extending in diverging relation from the hinged connection with inner side edges bendably connected to opposite side edges of the upper wall whereby said walls are bendable into overlapping relation relative to the upper wall for inserting downwardly through said opening, the front edges of the side walls being curved on radii centered on the hinged connections and provided with notches intermediate their ends providing clearance with the front end of the opening for swinging of the side walls in the opening from overlapped relation into engagement with the sides of the opening and in spout forming position with the front edges of the side walls receivable in said slots to hold the said walls against the sides of the opening, all adapted and arranged whereby the spout may swing between a pouring position and non-pouring position with the front edges of said side walls traversing said slots, and extensions on the front edges of the side walls below and engaging the inner member to limit movements of the spout in pouring position.

2,330,465

WELDING APPARATUS

Algernon Edward Berriman, Oxford, England, assignor to Pressed Steel Company Limited, Oxford, England, a British company

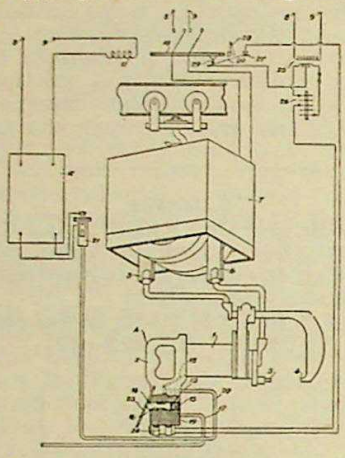
Application April 1, 1939, Serial No. 265,562

In Great Britain April 1, 1938

8 Claims. (Cl. 219—4)

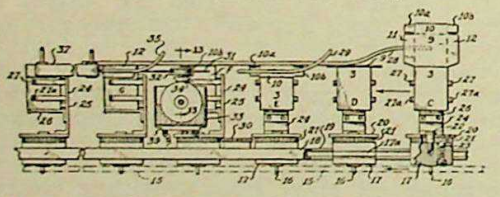
1. A welding apparatus of the kind wherein the

welding dies are moved relatively to one another and held in contact with the work through the medium of a pressure fluid, comprising a movable contact breaker for the welding current circuit, a timing device adapted to determine the time interval between the make and break movements of said contact breaker, a manual control for starting and stopping the flow of the pressure fluid to



cause the dies to move relative to each other and an electro-magnetic looking device for maintaining the manual fluid pressure control as set by the operator at the commencement of a welding operation, for a period in excess of that during which welding current flows and means for unlocking said device dependent upon operation of said breaker.

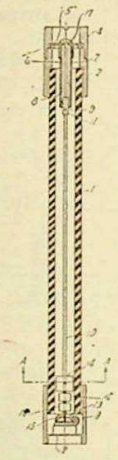
2,330,466
MEANS AND METHOD FOR PACKAGE CLOSURE
Samuel Bergstein, Cincinnati, Ohio, assignor to Robert Morris Bergstein and Frank David Bergstein, trustees
Application August 20, 1941, Serial No. 407,638
25 Claims. (Cl. 93—44.1)



1. In a packaging machine, in combination, means for moving along a carton body retained in erect condition, means to fold over an open end of said carton body, a lid flap articulated to a panel of said carton body, with side walls, and a front wall articulated to said lid flap, and corner flaps on said front wall, means to fold the front wall of said lid flap down over the opposite panel of said carton, means to fold the corner flaps articulated to said front wall against the remaining pair of opposite body panels, and means to fold the pair of side walls articulated to said lid panel down over said previously folded corner flaps, adhesive having been applied to meeting surfaces of said side walls and said corner flaps.

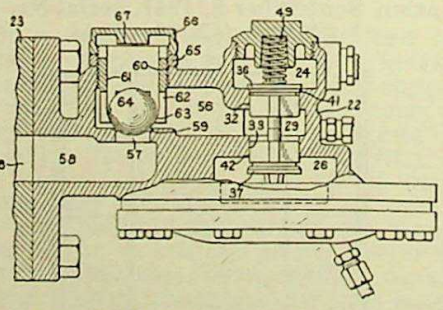
4. The method of making an erect container with a reclosure lid, having walls on three of its sides, over an end thereof, which includes providing a tubular carton body, one panel of which has articulated thereto a lid flap having a front wall and two side walls, retaining said body in erect form, folding said lid flap at right angles to the panel to which it is articulated to overlie an end of the body, folding said front and side walls at right angles to the lid flap into position parallel to, and overlying, the respective panels of the main carton body, and securing said lid walls to one another in folded position by adhesively securing the corner flaps thereof.

2,330,467
FUSE
Augustus Jesse Bowie, San Francisco, Calif.
Application August 4, 1940, Serial No. 351,341
7 Claims. (Cl. 200—131)



1. A high-tension fuse comprising a fuse tube, end terminals thereon, a fuse element located adjacent to one end terminal, a lead connecting said fuse element to the second end terminal, and a piston element mounted on said lead and adapted to be ejected together with said lead through pressure caused by the blowing of said fuse, said piston acting through a material length of travel within said tube.

2,330,468
FLUID CONTROL MEANS
Eugene C. Brisbane and Earl E. Hilker, York, Pa., assignors to S. Morgan Smith Company, York, Pa., a corporation of Pennsylvania
Application May 16, 1941, Serial No. 393,718
2 Claims. (Cl. 251—121)



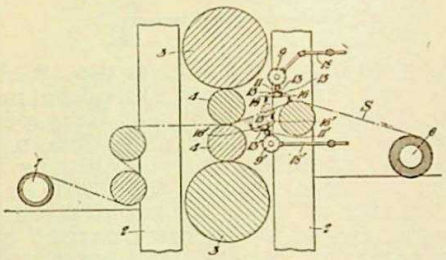
1. Fluid control means comprising a casing formed with a passage, a valve seat formed in the passage, a threaded bore formed in the casing and arranged in axial alinement with said valve seat, a cage open at both ends and having a portion formed with external screw threads for threaded engagement with the threads of said bore, the threaded portion of said cage projecting above the upper surface of said casing, said cage having a plurality of depending arms extending downwardly in said bore towards said valve seat, the lower ends of said arms having inwardly extending portions adapted to be disposed in spaced relation above said valve seat, a ball valve mem-

ber mounted within said cage and adapted to be supported by the lower inwardly extending portions of said arms in spaced relation with respect to said valve seat, said ball being freely movable within said cage, a lock nut mounted on the upper threaded exteriorly disposed portion of said cage and adapted to be turned down tightly against the upper surface of said casing to retain the cage in adjusted position within said bore, and a cap nut threadedly mounted on the upper portion of said cage above the lock nut, said cap nut constituting means for closing the upper open end of said cage and being adapted to be unscrewed from said cage to expose the ball for inspection or replacement without affecting the position of the cage within the bore of the casing.

2,330,469

METHOD OF COLD-ROLLING STEEL STRIP OR SHEET

Vere Byus and Earl D. Spangler, Gary, Ind.
Application May 2, 1940, Serial No. 333,030
4 Claims. (Cl. 80—60)

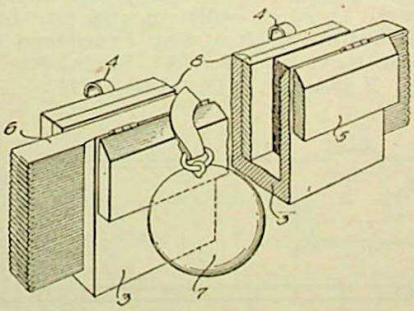


1. The method of temper rolling a flat metal workpiece in a cold rolling mill, which comprises flowing a continuous bath of liquid water at elevated temperatures across the full width of the said workpiece immediately prior to its entry into the metal working temper rolls.

2,330,470

HEAVING LINE DEVICE

Harold Augustin Calahan, Rye, N. Y.
Application January 8, 1941, Serial No. 373,647
11 Claims. (Cl. 206—1)

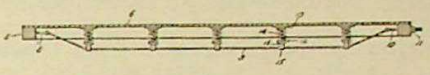


1. In a heaving line device, a flat flexible tape, a receptacle having two parallel sides and adapted to hold said tape therein folded in layers upon itself along transverse lines at predetermined points, one layer being supported by the layer immediately underneath and permit the same to play out therefrom in successive layers, the interior width of said receptacle being substantially greater than the width of said tape and means for selectively preventing lateral movement of said flaked tape within said receptacle.

2,330,471

SPRAY STENCIL HOLD-DOWN

Charles O. Clark, Mount Vernon, Ill., assignor of one-half to Le Roy Clark, Mount Vernon, Ill.
Application October 16, 1941, Serial No. 415,305
3 Claims. (Cl. 101—127.1)



1. In combination, a stencil sheet, a rectangular frame fitting flat against said sheet, and means to exert yielding pressure against selected areas of said sheet outwardly of said frame comprising presser plates arranged in rows in said frame to bear against said sheet, and means to apply tension against the rows of plates in different degree in each row.

2,330,472

CERTAIN WATER-SOLUBLE HIGH MOLAL OXYALKYLATED ESTERS AND METHOD OF MAKING SAME

Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Original application March 21, 1941, Serial No. 384,600. Divided and this application June 26, 1942, Serial No. 484,686
11 Claims. (Cl. 260—404.8)

1. A water-soluble ester, being the resultant of two intermediate reactants, to wit, an acidic intermediate reactant and an alcoholic intermediate reactant; said acidic intermediate reactant being in turn the resultant fractional ester of two primary reactants, one being alcoholic and the other acidic; said primary alcoholic reactant consisting of a polyalkylene glycol having at least 7 and not more than 17 ether linkages; and the alkylene radical thereof containing at least two and not more than 6 carbon atoms; and the acidic primary reactant being a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the said primary esterifying reactants being within the range of more than 1 mole and not over 2 moles of the polybasic acid for each mole of the polyalkylene glycol; and the said intermediate alcoholic reactant being the complete ester of 2 additional primary reactants, and likewise, one being acidic and the other alcoholic, to wit, a high molal monocarboxy hydroxy acid having at least 8 and not more than 32 carbon atoms; and a triol; the ratio of the intermediate reactants being 2 moles of the alcoholic intermediate reactant for each mole of the acidic intermediate reactant.

2,330,473

CERTAIN WATER-SOLUBLE HIGH MOLAL OXYALKYLATED ESTERS AND METHOD OF MAKING SAME

Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Original application March 21, 1941, Serial No. 384,601. Divided and this application June 26, 1942, Serial No. 448,687
11 Claims. (Cl. 260—404.8)

1. A water-soluble ester, being the resultant of two intermediate reactants, to wit, an acidic intermediate reactant and an alcoholic intermediate reactant; said acidic intermediate reactant being in turn the resultant fractional ester of two primary reactants, one being alcoholic

and the other acidic; said primary alcoholic reactant consisting of a polyalkylene glycol having at least 7 and not more than 17 ether linkages; the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and the acidic primary reactant being a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of said primary esterifying reactants being within the range of more than 1 mole and not over 2 moles of the polybasic acid for each mole of the polyalkylene glycol; and the said intermediate alcoholic reactant being the complete water-insoluble ester of two additional reactants, and likewise, one being acidic and the other alcoholic, to wit, a high molal monocarboxy hydroxy acid having at least 8 and not more than 32 carbon atoms, and a polyhydric alcohol, the alcohol radical of said complete ester having a valency of at least 2 and not more than 4; the ratio of said intermediate reactants being at least 1 mole of the acidic intermediate reactant per mole of the alcoholic intermediate reactant and not more moles of the intermediate acidic reactant than the aforementioned valency of the alcoholic ester radical.

2,330,474

PROCESS FOR BREAKING PETROLEUM EMULSIONS

Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Substituted for abandoned application Serial No. 399,731, June 25, 1941. This application December 14, 1942, Serial No. 468,999

1 Claim. (Cl. 252—331)

A process for breaking petroleum emulsions of the water-in-oil type, which consists in subjecting the emulsion to the action of a demulsifying agent comprising a 4:4′-di-(polyethylene glycoxy-cyclohexyl) dimethyl methane.

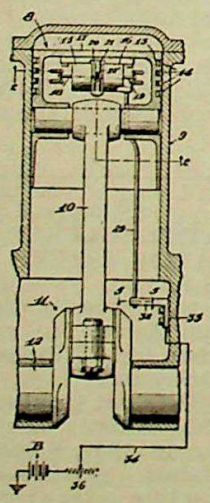
2,330,475

PISTON RING EXPANDER

Anthony J. Di Lucci, Los Angeles, Calif., assignor to Sydney J. Levy, Los Angeles, Calif.

Application April 1, 1940, Serial No. 327,230

6 Claims. (Cl. 309—35)



1. In a piston ring expander, the combination of a piston having a ring groove, a divided ring in said groove, pressure exerting means carried interiorly of said piston, pressure transmission means extending from said pressure exerting means through the piston into contact with the inner periphery of said ring, and regulating means for varying at will the force of said pressure exerting means during operation of the piston.

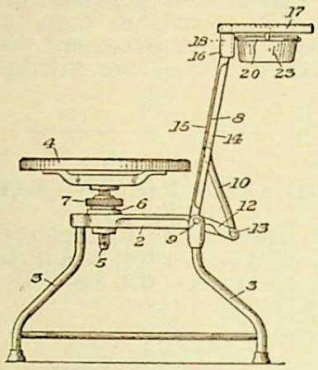
2,330,476

SURGICAL CHAIR

Lucille E. Donchess, Gary, Ind.

Application December 13, 1941, Serial No. 422,914

5 Claims. (Cl. 155—43)



1. A surgical chair of the class described comprising a seat, an upwardly extending member arranged to one side of said seat for supporting the upper part of the body of a human being, said upwardly extending member having a pair of bearing portions arranged therewith adjacent the top thereof, with one arranged at each side of the same, and a rest member carried by said upwardly extending member and extending outwardly therefrom to that side of said seat, said rest member having a pair of downwardly extending post-like portions arranged therewith with one of said post-like portions adapted to be arranged in one of each of said bearing portions so as to provide a releasable pivotal connection at each side of said rest member, said rest member adapted to be swung outwardly from said upwardly extending member to either side thereof about either of the pivotal connections at said bearings.

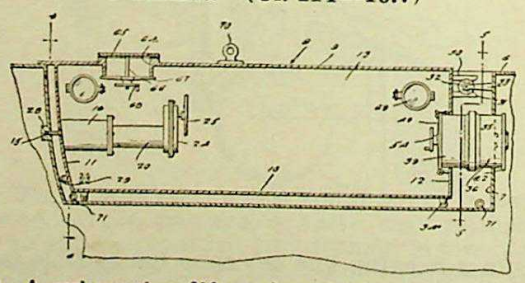
2,330,477

SUBMARINE RESCUE DEVICE

John F. Donnelly, Oakland, Calif., assignor of one-fourth to Alice Sullivan and one-fourth to Etta McKenna, both of San Francisco, Calif.

Application November 6, 1941, Serial No. 418,078

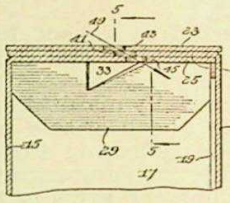
3 Claims. (Cl. 114—16.7)



1. A submarine lifesaving device comprising a well in the deck of a submarine, a hollow buoyant body positioned therein, a sliding bolt carried at one end of the body and operable from the interior of the body for releasably securing the body in the well, a separable sectional tube providing communication between the interior of the submarine and the interior of the body, said tube including a section carried by the submarine and a section carried by the body, a clo-

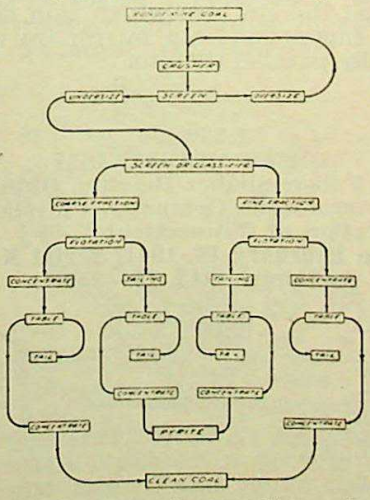
sure for the first-named section operable from a position within the tube, and a closure for the second-named section operable from a position in the body, said body-securing means being operable to move the body horizontally in the well in a direction to engage the sections of the tube, and retaining means for an opposite end of the body and arranged to release said last-named end of the body upon a movement of the body in a direction for disengaging said tube sections.

2,330,478
COIN BANK
Walter J. Englert, Rochester, N. Y., assignor of one-half to Harold J. Nagle, and one-half to Reginald A. Nagle, both of Rochester, N. Y., jointly
Application January 5, 1942, Serial No. 425,651
5 Claims. (Cl. 229—8.5)



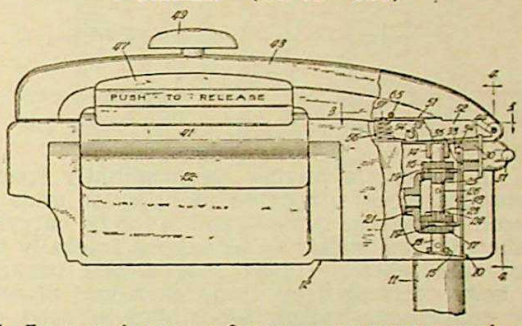
1. A coin collecting box made of relatively stiff cardboard and having a wall comprising a plurality of layers of cardboard in superposed, fixed relation to each other, and an elongated coin slot in each layer, said slots being arranged in longitudinally parallel relation with each other and with their respective ends in laterally alined relation, each slot being offset laterally relative to the slot in the next cardboard layer by a distance less than the full width of the slot, so that said slots collectively form a continuous slot of reduced width opening obliquely through said layers through which a coin may be inserted into the box without substantially separating or bending said layers.

2,330,479
BENEFICIATION OF LOW GRADE COAL
Stephen E. Erickson, Springdale, Conn., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware
Application January 29, 1941, Serial No. 376,447
In Brazil April 5, 1940
1 Claim. (Cl. 83—94)



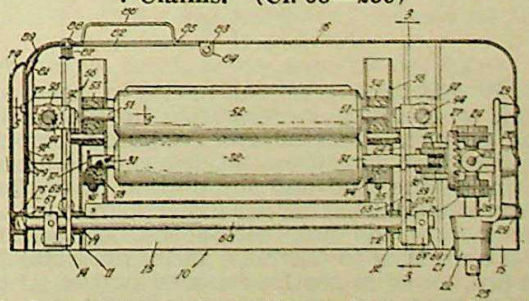
A method of recovering pyrite and coal values from a low grade coal containing pyrite which comprises the steps of crushing the coal to —35 mesh, separating the crushed coal into a —35+65 mesh fraction and a —65 mesh fraction, subjecting each fraction to a separate froth flotation operation and tabling separately the flotation concentrates to recover the coal values and tabling separately the floatation tailings to recover the pyrite values, said flotation operations being carried out employing a reagent combination comprising a hydrocarbon oil and a frothing agent.

2,330,480
WRINGER ROLL STOP
Nicholas L. Etten, Waterloo, Iowa
Application November 27, 1939, Serial No. 306,307
7 Claims. (Cl. 68—253)



1. In a wringer, a frame, a pressure spring, a plurality of pressure rolls, a pressure release for said rolls comprising a separable top frame latched to said wringer frame, power-operated driving means for said rolls comprising a gear housing including a gear assembly having forward, neutral, and reverse operating positions and a gear shift lever movable between said positions, a roll stop member pivotally mounted on the exterior of said gear housing, an operating cam affixed to said shift lever externally of said gear housing and adapted to be engaged by said roll stop member and moved to neutral position by said roll-stop member, a spring to actuate said roll-stop member, and a restraining stop affixed to said separable top frame of the wringer to secure said spring in inactive position.

2,330,481
CONSTANT PRESSURE WRINGER
Nicholas L. Etten, Waterloo, Iowa
Application November 24, 1939, Serial No. 305,820
7 Claims. (Cl. 68—259)



1. In a wringer including a frame and a plurality of pressure rolls, a reversible pressure mechanism comprising coiled pressure spring means for applying wringing pressure between said rolls adapted to act in a direction normal to the direction of lateral roll movement and a toggle-joint at each opposite end portion of one roll and having end pivots urged toward each other by said spring means and a center pivot operatively connected to one of said rolls and constructed and arranged to assume a position on either side of a center line defined by the end

pivots, and adapted to alternatively urge said rolls into pressure engagement during the normal operation of the wringer and to be effective to actively withdraw said rolls into extreme spaced relationship whenever said toggle-joints are moved across center.

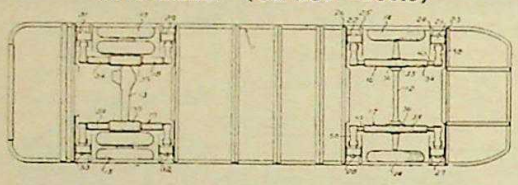
2,330,482

VEHICLE SPRING SUSPENSION

William B. Fageol, Kent, Ohio, assignor to Twin Coach Company, Kent, Ohio, a corporation of Delaware

Application March 26, 1941, Serial No. 385,364

26 Claims. (Cl. 280—106.5)



1. In a vehicle having longitudinally spaced transverse axles supported at opposite ends by ground engaging wheels and a body carrying frame of such width as to extend laterally beyond said wheels, spring suspensions between the body carrying frame and each end of each axle comprising spring assemblies secured directly to the axles inwardly of the adjacent wheels and outwardly extending transverse suspension linkages connected between said spring assemblies and said body carrying frame adjacent the outer side edges of said body carrying frame.

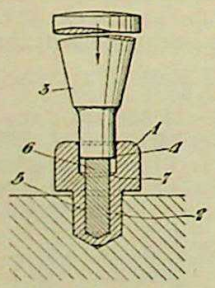
2,330,483

RAIL BOND TERMINAL

Harold H. Febrey, South Orange, N. J., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application May 14, 1940, Serial No. 335,181

5 Claims. (Cl. 238—14.13)



1. A rail bond terminal having a head and a stud with a hole opening from the side of the head opposite the stud and extending through the head and into the stud, the hole terminating inside the stud and the portion of the hole within the stud having a smaller diameter than a portion of the hole within the head including the opening to the hole, and a malleable insert positioned in the first named portion of the hole with an end extending towards the second named portion of the hole.

2,330,484

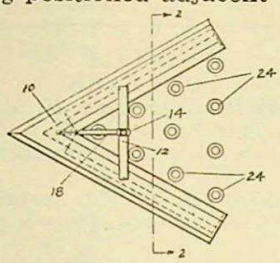
LIGHT FIXTURE

George B. Finazzo, St. Louis, Mo.

Application August 27, 1941, Serial No. 408,408

3 Claims. (Cl. 240—3)

1. A light fixture for bowling alleys that is arranged to provide even, substantially shadowless illumination for bowling pins when it is positioned above and slightly ahead of the said pins, said fixture comprising a pair of substantially horizontal arms that are angularly disposed with relation to each other to form a V, said angular disposition being similar to the angle formed by said bowling pins, each of said arms having at least one tubular electric lamp to provide light for the said pins, each of said arms having a trough-shaped reflecting surface, said reflecting surfaces being positioned adjacent to said lamps



and being arranged to reflect light from said lamps inwardly of said V and downwardly onto the front and side faces of said pins, and supporting means normally maintaining said fixture above and slightly ahead of said pins, said tubular lights and said reflecting surfaces being arranged to provide a substantially continuous source of light along the arms of the fixture and to direct that light substantially at right angles to the legs of the V formed by the bowling pins and thereby illuminate the front and a portion of the side faces of each pin.

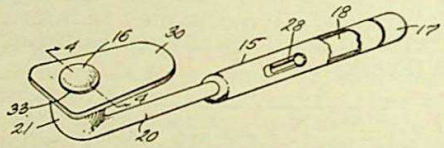
2,330,485

DEVICE FOR USE IN EXAMINING TEETH

Herman L. Frank, Buffalo, N. Y.

Application August 21, 1941, Serial No. 407,765

1 Claim. (Cl. 240—2.18)



A device for use in examining teeth, including a hollow handle portion adapted to receive a battery, a hollow stem extending outwardly from said handle, an electric light socket at the end of said stem, a conductor in said stem extending from said socket to said battery, a collar arranged about said socket, and a mirror having a circular hole formed therein into which said collar may enter for supporting said mirror on said stem substantially parallel thereto.

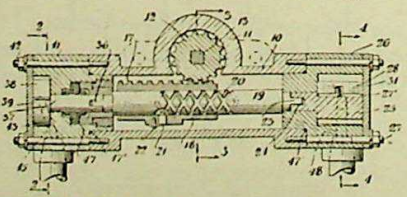
2,330,486

DRIVE MECHANISM

Ernest W. Fuller, Shaker Heights, Ohio, assignor to The Acrotorque Company, Cleveland, Ohio, a corporation of Connecticut

Application February 18, 1941, Serial No. 379,538

4 Claims. (Cl. 15—250.4)



1. A windshield wiper mechanism for cleaning and delivering liquid to a windshield comprising a central shaft housing, a rotatable motion

changing shaft mounted therein, rotary reciprocating windshield wiper means operatively connected with said shaft, a motor housing secured to one end of said central housing, means in said housing for cooperating with and driving said shaft, a pump housing secured to the other end of said central housing, liquid pump means in said housing and driven by said shaft and means for delivering liquid from said pump to said windshield.

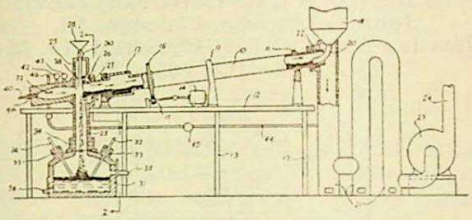
2,330,487

SMELTING APPARATUS

John Hedley Grace, Vancouver, British Columbia, Canada, assignor to Ronald H. Grace, Vancouver, British Columbia, Canada

Application April 2, 1942, Serial No. 437,447

2 Claims. (Cl. 13—1)



1. Smelting apparatus comprising a horizontally-inclined rotatable kiln, means for supplying charged ore to the upper end of the kiln, a charging shaft at the lower end of the kiln, said kiln opening into the shaft adjacent the top thereof, a combustion and mixing chamber having a restricted opening which communicates with the shaft, means for supplying fuel to the chamber, means for supplying a limited amount of air to the chamber, the incomplete combustion of the fuel in the chamber producing a reducing atmosphere for the kiln, an electric furnace connected to the lower end of the shaft to receive the reduced ore from the kiln, said reduced ore being melted in the furnace, and an exhaust fan connected to the upper end of the kiln adapted to draw heat from the furnace and the reducing atmosphere through the kiln.

2,330,488

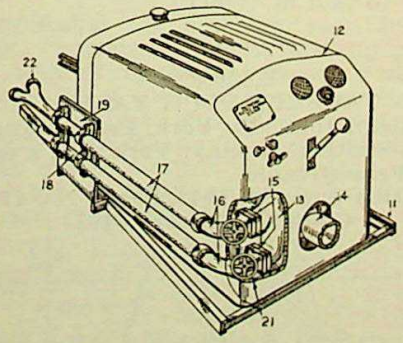
PORTABLE ENGINE-DRIVEN PUMP

Lawrence Hathaway, Coventry, England, assignor to Coventry Climax Engines Limited, Coventry, Warwickshire, England

Application December 1, 1941, Serial No. 421,217

In Great Britain January 15, 1941

5 Claims. (Cl. 103—111)



1. A portable engine-driven centrifugal pump having a volute chamber, a delivery pipe connected to one side of the volute chamber, an angle-bend portion in said delivery pipe adjacent the pump, a control valve disposed in said angle-bend portion and extending laterally away from the pump to be accessible from the side of the pump, said delivery pipe having a portion extending alongside the engine and adapted at its end remote from the angle-bend portion for connection to a hose or breeching-piece in known manner.

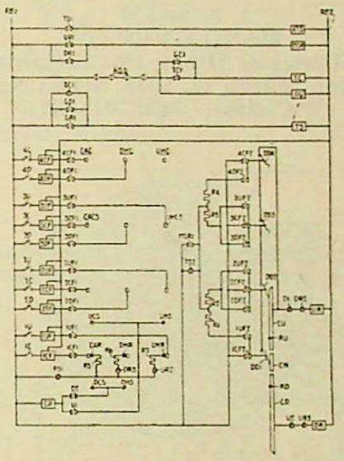
2,330,489

ELECTRICAL CONTROL SYSTEM

Herbert Loeb Heart, Yonkers, and Lee Irwin Davis, New York, N. Y., assignors to Otis Elevator Company, New York, N. Y., a corporation of New Jersey

Application June 26, 1942, Serial No. 448,666

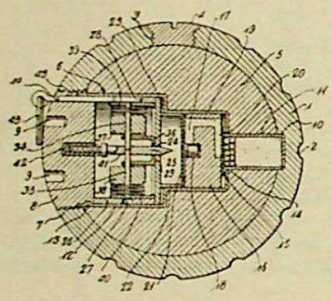
43 Claims. (Cl. 172—152)



20. In a control system in which a direct current hoisting motor is supplied with current from a variable voltage direct current generator having a separately excited field winding and in which resistance is connected in series with said winding to a source of direct current for controlling the excitation of said generator; a direct current tachometer generator driven by said motor; two transformers, the primary of one of said transformers being excited from said tachometer generator and the primary of the other transformer being excited from the secondary of said one transformer; a vibrating relay having an operating coil excited from said source and a control coil excited from the secondary of said one transformer and acting cumulatively with said operating coil to cause operation of said relay when the voltage of the tachometer generator is increasing at a certain rate during acceleration and decreasing at a certain rate during retardation and also acting during each cyclic period of operation to control the time during the period that the relay is in operated condition; means operable during acceleration to cause a portion of said resistance to be in circuit with the field winding when said relay is in operated condition and during retardation to cause a portion of said resistance to be short-circuited when said relay is in operated condition, thereby causing acceleration and retardation to take place at a substantially constant rate; another vibrating relay having an operating coil excited from said source and a control coil excited from the secondary of said other transformer, the coils of said other relay acting cumulatively when there is any increase in the rate of build up of voltage of the tachometer generator during acceleration and any decrease in the rate of decay of such voltage during retardation and acting in opposition when there is any decrease in the rate of build

up of such voltage during acceleration and any increase in the rate of decay of such voltage during retardation, said control coil also acting during each cyclic period of operation of the relay to control the time during the period that the relay is in operated condition; and means operable during acceleration to cause a portion of said resistance to be in circuit with the field winding when said other relay is in operated condition and operable during retardation to cause a portion of said resistance to be short-circuited when said other relay is in operated condition, thereby preventing any substantial deviation from said constant rate of acceleration and retardation.

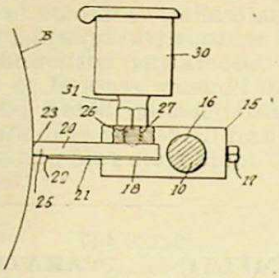
2,330,490
HAND GRENADE
Earl Douglass Hibbs, Philadelphia, Pa.
Application March 22, 1941, Serial No. 384,735
2 Claims. (Cl. 102—64)



1. A hand grenade comprising, in combination, a precharged casing containing explosive molded to receive a firing mechanism and a separable firing assembly adapted to be inserted through an opening in a wall of said casing and to fit into the molded explosive therein, said firing mechanism embracing a metal casing carrying a precharged detonator at one end thereof, a preformed time fuse carrying member in juxtaposition to the charge of said detonator, a percussion cap associated with said member, a firing pin operable to strike said percussion cap to ignite said fuse, a centrally apertured disk surrounding said firing pin, diametrically opposed bearing arms on said disk, radially disposed locking pins carried by said bearing arms, spring means urging said locking pins into contact with said firing pin to hold said firing pin against movement, and weights on each of said locking pins responsive to centrifugal force upon throwing of the grenade to force said locking pins radially outward against said spring means to release said firing pin.

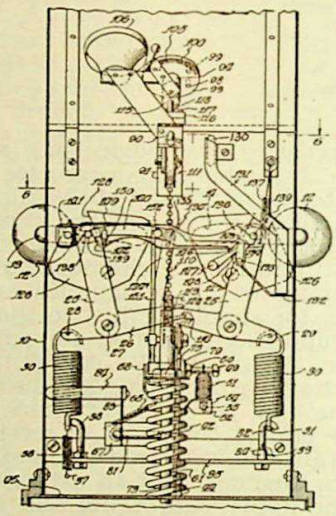
2,330,491
CYLINDER BEARER LUBRICATOR
William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application June 4, 1942, Serial No. 445,826
4 Claims. (Cl. 101—216)

1. In a printing machine, the combination with cooperating cylinder bearers having peripheral faces and adapted to rotate with their peripheral faces in rolling engagement under pressure, of a yieldable lubricating wick supported in wiping engagement with the peripheral face of a bearer, and means for supplying lubricant to the wick whereby the wick deposits the requisite quantity of lubricant on the peripheral face of the bearer to provide a lubricant cushion and to reduce friction



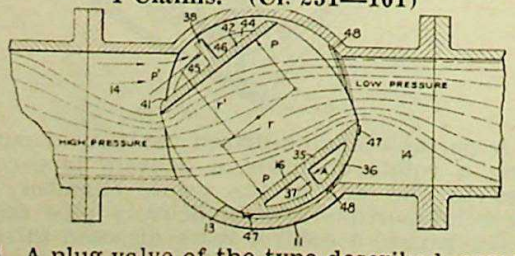
at the contacting areas of the cooperating bearers.

2,330,492
STRENGTH-TESTING MACHINE
John G. Jansen, Chicago, Ill.
Application August 27, 1940, Serial No. 354,438
9 Claims. (Cl. 265—22)



3. In a strength testing machine, a housing, a pair of arms inside the same and having a concerted movement, a pair of manually-actuated controls outside the housing and connected through the same to the respective arms, a spring leading from one of the arms to the housing and serving as a resistance to said movement, a second spring leading from the other arm to the housing without being attached thereto, a hand control outside the housing, and means inside the latter and operable by said hand control to attach the second spring to the housing and impose an added resistance to said movement.

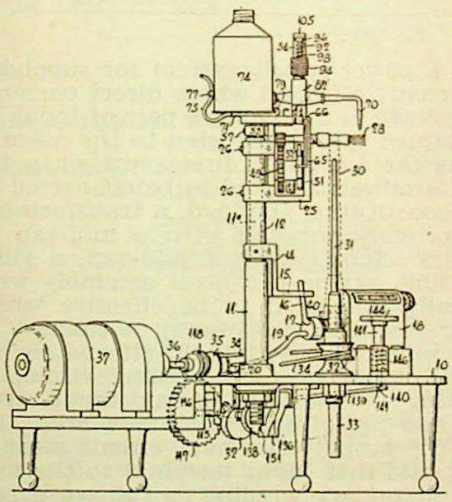
2,330,493
TAPERED PLUG VALVE
George Dugan Johnson, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a corporation of Pennsylvania
Application June 12, 1942, Serial No. 446,702
4 Claims. (Cl. 251—101)



1. A plug valve of the type described, compris-

ing a body having a passage therethrough, a conical cavity formed in said body and intersecting said passage, a valve plug rotatably mounted in said cavity, said plug having a waterway therethrough for registration with the passage when the plug is in open position, and a vane projecting outwardly from a side wall of said plug at a substantially right angle to the longitudinal center line of the waterway, said vane being disposed within the confines of the seat provided by the conical wall of said valve body cavity by a sufficient amount to allow a flow clearance between the vane and the seat, whereby the impact of the fluid against the vane which is effective on the plug is due to the change of velocity of the fluid by the vane as the fluid flows through the clearance between the plug and the wall of the cavity during rotation of the plug towards open position in opposition to the pressure present in said waterway which tends to rotate said plug in a closing direction.

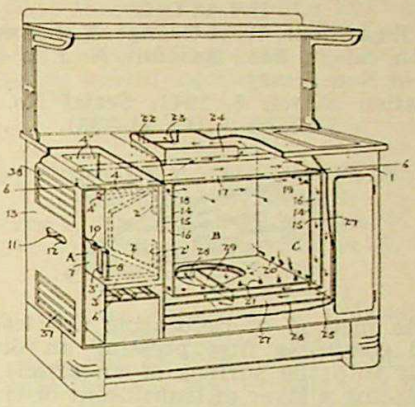
2,330,494
COATING APPARATUS FOR YARN HOLDERS
David A. Jolley and Joseph P. Scarborough, Kannapolis, N. C.; said Scarborough assignor to said Jolley
Application November 24, 1941, Serial No. 420,196
12 Claims. (Cl. 91—39)



6. Apparatus for marking yarn holders and the like, comprising means for supporting said holder, a marking element mounted for swinging movement in a plane disposed at right angles to the longitudinal axis of said holder supporting means, cam means for positively moving said marking means against said holder, and means for rotating the brush along its longitudinal axis upon each swinging movement.

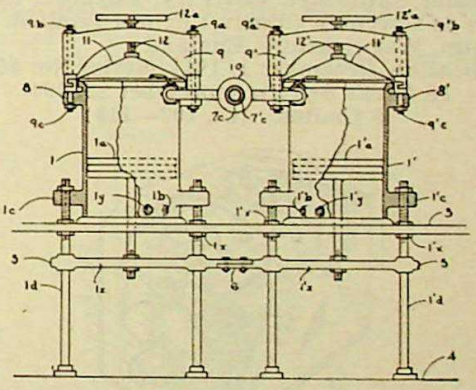
2,330,495
RANGE
Albert Karges, Woodstock, Ontario, Canada
Application July 12, 1941, Serial No. 402,079
In Canada July 22, 1940
6 Claims. (Cl. 126—1)

1. A range having a firepot formed with air ducts in the walls thereof, an oven having openings communicating with the air ducts in said firepot, and means for directing a circulation of air from the firepot ducts into the interior of said oven and for returning same from the oven



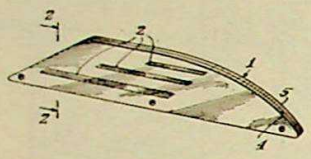
interior to said firepot ducts in a continuous oven-heating circuit.

2,330,496
STUFFING MACHINE
Benjamin H. Kidd, Louisville, Ky.
Application June 27, 1941, Serial No. 400,113
1 Claim. (Cl. 17—39)



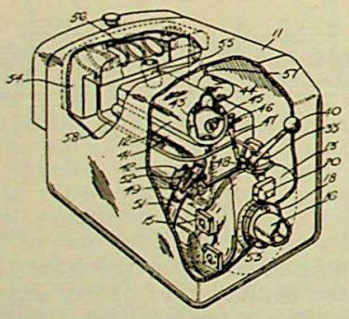
In a stuffing machine of the kind shown and described, the combination of two adjacent vertical food-cylinders resting upon the floor above a basement; said cylinders having air-tight covers and provided with air-tight freely-moving pistons operative by compressed air or other fluids under pressure in said cylinders; integral pillow-blocks or heavy lugs cast on the opposite sides of said cylinders near the bottoms thereof; said cylinders being held in place by means of posts anchored in said basement and passing up through said floor and fastened in said lugs; a cross-beam in said basement adapted to slide up and down on said posts; vertical rods fixed on the under sides of said pistons and extending air-tight down through the bottoms of said cylinders and through said floor and adjustably fastened in said cross-beam, so as to limit the upward movement of said pistons; adjacent parallel outlet tubes cast in the adjacent sides of said cylinders near the tops thereof, said tubes being open at both ends and adapted for the entrance of threaded nipples and cut-off valves, having fixed therein curved food tubes extending into a conical hood; and double stuffing nozzles fixed in said hood, comprising a small inner tube connected with one of said cylinders containing one kind of ingredient, and a larger outer tube connected with the other cylinder containing another kind of ingredient, said outer tube being adapted to hold the casing of a wiener.

2,330,497
INLAID ARTICLE AND METHOD OF INLAYING
James J. Larmour, West Orange, N. J., assignor to Plastic Inlays, Inc., Summit, N. J., a corporation of New Jersey
Application March 5, 1941, Serial No. 381,790
3 Claims. (Cl. 41—35)



2. The method of decorating articles, which method comprises first pressing an ornament partially into the surface of an article, thereafter placing a layer of translucent or transparent material over said ornamented surface, and pressing said layer of material toward said ornament to partially embed the ornament in said layer of material.

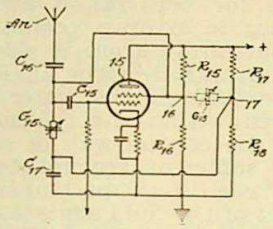
2,330,498
ENGINE-DRIVEN CENTRIFUGAL PUMP
Leonard Pelham Lee, Lawrence Hathaway, and Arthur Sawbridge, Coventry, England, assignors to Coventry Climax Engines Limited, Coventry, Warwickshire, England
Application December 1, 1941, Serial No. 421,218
In Great Britain September 29, 1941
6 Claims. (Cl. 103—113)



1. In combination, a centrifugal pump of the single-stage rotary-vane type, an internal-combustion engine connected to drive said pump, the engine having a cooling system supplied with cooling water from the outlet side of said pump, a valve controlling the supply of such cooling water, an ejector operated by the engine exhaust connected to the inlet side of said pump for creating a subatmospheric pressure for facilitating the priming of said pump, and a valve in the connection of said inlet side to said ejector, said two valves being combined in a unit having a single actuating means whereby when one valve is closed the other valve is open and vice versa, and said valve unit being mounted directly upon the casing of said pump.

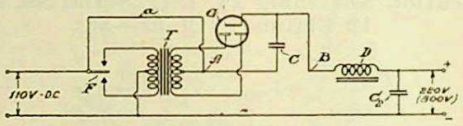
2,330,499
CONTROL CAPACITY CIRCUITS
Wilhelm Lehfeldt, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian
Application November 19, 1940, Serial No. 366,245
In Germany May 22, 1939
8 Claims. (Cl. 179—171)

1. In a high-frequency electrical system, an electron discharge tube having a plurality of electrodes, in put and output circuits connected to said electrodes, a rectifier of silicon carbide constituting a regulating condenser and a voltage-dependent resistance included in at least one of said circuits, a source of direct current



and means for utilizing said source to control the capacitive and resistive effect of said regulating condenser on said tube circuit.

2,330,500
POWER SUPPLY CIRCUIT
Alfred Leifer, Berlin, Germany; vested in the Alien Property Custodian
Application February 15, 1941, Serial No. 379,094
In Germany August 7, 1939
3 Claims. (Cl. 171—97)

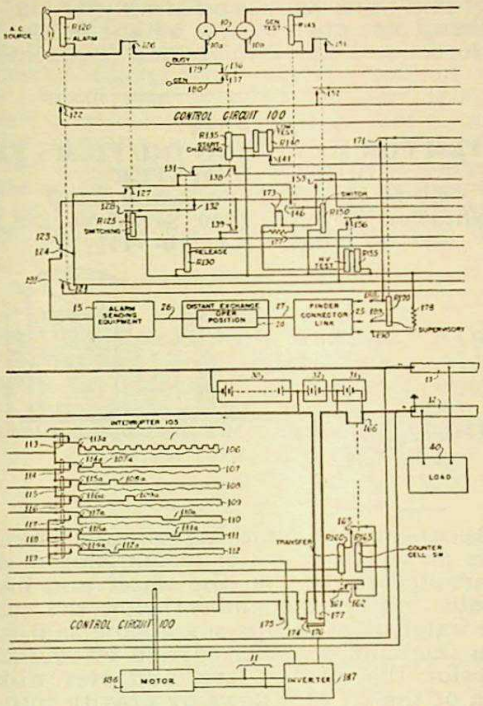


1. In a power supply system for supplying direct current to a load where direct current of a lower voltage is available, a pair of input terminals adapted to be connected to the means constituting the source of direct current, a pair of output terminals adapted to be connected to the means constituting the load, a transformer having a primary winding with a mid-tap and a secondary winding with a mid-tap, a vibrator-switch unit having a control assembly which is electrically connected to be effective when the vibrator assembly is operated to connect a first one of said input terminals alternately to the two ends of said primary winding, circuit means connecting a second one of said input terminals to the mid-tap of said primary winding and to one of the output terminals, circuit means connecting said first input terminal to the mid-tap of said secondary winding, a full wave rectifier unit, and circuit means connecting the two ends of said secondary winding through said rectifier unit to the other output terminal whereby electrical power is delivered from said vibrator assembly through said transformer and, thence, is rectified by said rectifier and supplied to the load in series with electrical power received directly from the source of direct current.

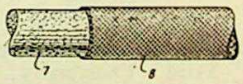
2,330,501
CURRENT SUPPLY SYSTEM
Clarence E. Lomax, Oak Park, and Pier Bakker, Chicago, Ill., assignors to Automatic Electric Laboratories, Inc., a corporation of Delaware
Application February 12, 1941, Serial No. 378,646
17 Claims. (Cl. 171—314)

1. In a system for charging a battery, a charging circuit, a testing device, means for causing said testing device successively to test the voltage of said battery and a reference voltage which is less than the voltage of said battery by a substantially fixed amount, means operated by reason of the battery voltage decreasing to a pre-

determined value for closing said charging circuit, and means operated by reason of said reference voltage rising to a predetermined value for opening said charging circuit.



2,330,502
PLASTIC PACKING
Stanley Longman, Red Bank, and Charles L. Farr, Cranford, N. J.
Application October 3, 1941, Serial No. 413,396
7 Claims. (Cl. 288—8)



1. A packing composition for stuffing boxes essentially comprising about 3 to 4 parts by weight of granulated cork, about 3 to 4.2 parts by weight of an inorganic foliated material, about 7 to 10 parts by weight of a polymer of isobutylene having an average molecular weight between 10,000 and 16,400, and about 1 part by weight of a plasticizer for said polymer.

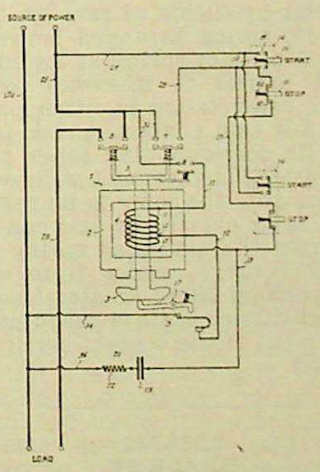
2,330,503
PROCESS OF WELDING METALS ELECTRICALLY
Antonio Longoria, South Euclid, Ohio
Application April 3, 1942, Serial No. 437,600
8 Claims. (Cl. 219—10)

1. The art of autogenous electric arc welding, comprising effecting a relative movement between juxtaposed pieces of work to be welded and a circular electrode, establishing a unidirectional electric current flow through the electrode and the work across an arc between them, causing the electrode to rotate in the direction of movement of the work, directing a gaseous fluid onto the electrode at the point of source of the arc and in a direction opposed to that in which the work is traveling and substantially perpendicular to a line passing through the welding arc normal to the work, the arc thus being stabilized and maintained continuous while the work pieces are being autogenously welded together.

2,330,504
DISPERSION OF POLYISOBUTYLENE IN AQUEOUS MEDIUMS
Gerry P. Mack, Jackson Heights, N. Y.
No Drawing. Application March 29, 1941, Serial No. 385,866
5 Claims. (Cl. 260—8)

4. An aqueous dispersion of polyisobutylene consisting of polyisobutylene, having a molecular weight in excess of 7000, water, a quantity of casein equal to about 8% by weight of the polyisobutylene and a solubilizing agent for the casein selected from the class consisting of the alkalis and borax, the casein serving as the sole emulsifying agent and as protective colloid for the polyisobutylene dispersion.

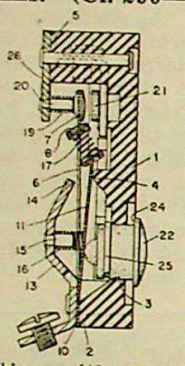
2,330,505
ELECTRIC CONTROL CIRCUIT
Lynn H. Matthias, Fox Point, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 10, 1941, Serial No. 382,510
9 Claims. (Cl. 175—375)



4. An electric control circuit comprising, a source of electric power, an electric load, a two-position relay having electro-responsive means to move it to "on" position to connect the load to the source, electro-responsive means to move it to "off" position to disconnect the load from the source and residual magnetic means to maintain the relay in "on" position upon operation thereto, circuit means to connect the "off" means of the relay to the source of power when the relay is in the "on" position, a second circuit connecting means providing a connection for the "on" means to the source of power when the relay is in the "off" position and interrupting said second connection when the relay moves to the "on" position, a control connection, when closed, cooperating with the second circuit connecting means to energize the "on" means and to move the relay to "on" position, said relay being maintained in the "on" position by the residual magnetic means,

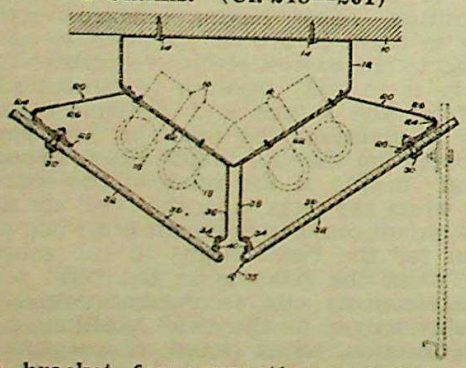
and said control connection completing a shunt circuit around the "off" means of the relay preventing effective energization and operation thereof to the "off" position until after the control connection is opened.

2,330,506
SNAP SWITCH CONSTRUCTION
Lynn H. Matthias, Fox Point, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 13, 1941, Serial No. 414,716
3 Claims. (Cl. 200—67)



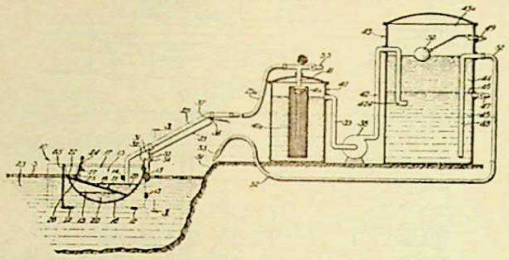
1. The combination with a switch comprising a movable contact engageable with a stationary contact, a contact carrier movable in a fixed path carrying said movable contact and shiftable to opposite positions to engage and disengage said contacts, a contact spring engaging said carrier and arranged to shift said contact carrier to either position by tilting of said spring, a movable actuating spring arranged between a support and said contact spring at its end opposite the contact carrier to maintain said contact spring under compression in either position and operable to tilt said contact spring from either position to its corresponding other position, of means in constant engagement with said contact carrier and biasing the same to its engaged position and the force exerted by said contact spring as derived from the actuating spring to actuate said movable contact carrier from engaged to disengaged position being greater than the bias of the contact carrier in its engaged position and during movement of the contact carrier to disengaged position.

2,330,507
BRACKET
Anthony L. McCabe, Reading, Mass.
Application July 23, 1941, Serial No. 403,700
3 Claims. (Cl. 248—201)



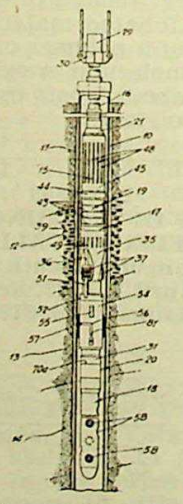
2. A bracket for supporting a panel, which comprises a pair of relatively flexible diverging arms mounted on an obliquely disposed surface, a lip formed in the lower end of the lower arm, a third arm hinged at one end to the outer end of the upper arm, and a lip formed on the other end of said third arm cooperating with the first-mentioned lip, whereby the weight of the third arm forces said lips into locking engagement.

2,330,508
SYSTEM FOR REMOVING OIL FILMS FROM BODIES OF WATER
Eli S. McColl, Long Beach, Calif.
Application March 5, 1940, Serial No. 322,304
5 Claims. (Cl. 210—44)



1. Apparatus for removing oil film from the surface of a body of water, comprising a structure adapted to float on the water and including walls forming a chamber below the surface of the water, float means supporting said structure, a skimming member carried by said structure below the oil film level and over which a stream of the oil film flows by gravity into said chamber, a weir supported by said structure and positioned above said skimming member in the path of said stream and controlling the rate of said oil flow into the chamber, means mounting said skimming member, weir and chamber walls for pivotal vertical adjustment relative to said float means, and means for removing oil from the chamber.

2,330,509
GUN TESTER
Otis J. McCullough, Houston, Tex., assignor to McCullough Tool Company, Los Angeles, Calif., a corporation of Nevada
Application April 30, 1940, Serial No. 332,470
7 Claims. (Cl. 166—1)



1. In a perforator and tester for use in a well, the combination of: a tube adapted to be moved in a well to a desired position of operation, said tube having means near the lower end thereof to provide an inlet opening for said tube; a perforating gun connected to the lower end of said tube; a member movable on the

lower portion of said tube, said member having means to close said opening when it is in one position on said tube and to open said opening when it is moved to another position on said tube; means engageable with the wall of the well to control said member whereby relative movement of said member and said tube to open said inlet opening may be accomplished; and means for firing said gun so as to discharge a projectile tc form a perforation to connect the interior of the well with the adjacent formation whereby fluid may flow into said well and said tube.

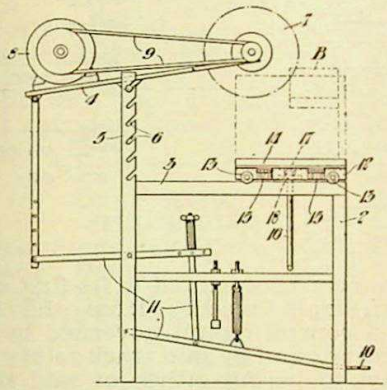
2,330,510

ADJUSTABLE TABLE FOR MASONRY SAWS

Robert Moffat and Leo J. Wright, Duquesne, Pa., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application April 12, 1943, Serial No. 482,778

2 Claims. (Cl. 125—13)



1. In a masonry saw of the character described having a work-receiving carriage and a saw movable in relation thereto, an adjustable work-receiving table on the carriage hinged thereto along one edge of said carriage for pivotal movement about an axis parallel to the cutting plane of the saw while intersecting said cutting plane, a segment secured to the free end portion of the table, and means on the carriage for securing the segment and table in adjusted position.

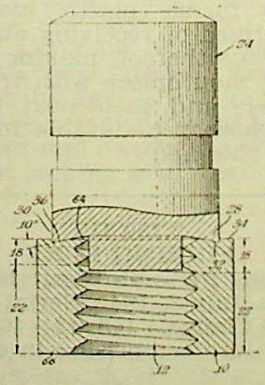
2,330,511

METHOD OF AND MEANS FOR FORMING LOCK NUTS

Benjamin F. Money, Tulsa, Okla., assignor of thirty one-hundredths to Charles R. Terry and thirty one-hundredths to Albert Cohan, both of Tulsa, Okla.

Application January 13, 1940, Serial No. 313,776

3 Claims. (Cl. 10—85)



3. A nut deforming die comprising a cylindrical body having a coaxial shaft at one end for reception in the threaded bore of a nut to center the die with respect to the nut, said one end of the die having a slight concavity forming an annular flange having a lateral face lying at an acute angle to the axis of said shaft, said annular flange being concentric with respect to the axis of said shaft and of such diameter as to locate the maximum application of forces at a considerable distance from the threaded bore of the nut to offset at least one complete thread convolution axially of the nut when the die is driven axially of the nut against one end face thereof, with said lateral face rocking the offset thread convolution in a direction to advance the crown thereof in the direction of the die.

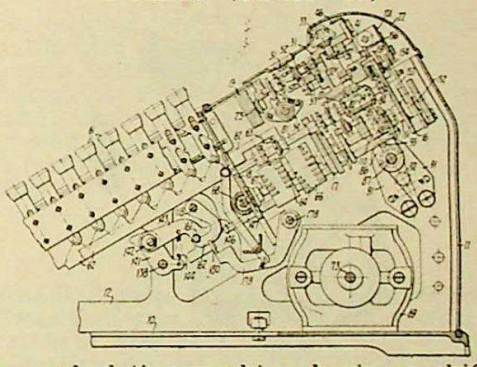
2,330,512

CALCULATING MACHINE

John L. Moody, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California

Application January 27, 1940, Serial No. 316,005

1 Claim. (Cl. 235—63)



In a calculating machine, having a shiftable register, cyclically operable means for effecting return of said register to a predetermined position, coupled with cyclically operable means for performing a resetting operation on said register, and drive means including a cyclically operable clutch and a drive establishing connection for said resetting means driven by said clutch, said resetting means being operable during overdriving of said returning means, a manually operable key, a control linkage from said key to said clutch, a control linkage from said key to said drive establishing connection, means in said last-named linkage spring-urged to active position, and means operated by said returning means for moving said spring-urged means to inactive position to disable the linkage for said drive establishing connection, said means being operable with said key held depressed and with said clutch engaged.

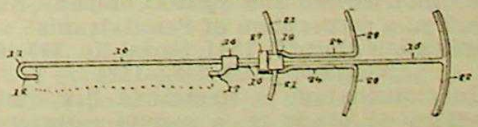
2,330,513

CLOSURE REMOVING TOOL

Emory D. Nichols, Miami, Fla.

Application June 2, 1941, Serial No. 396,328

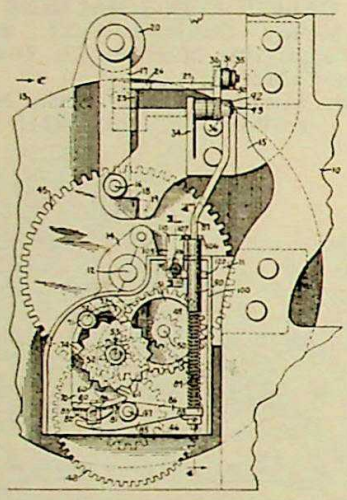
1 Claim. (Cl. 81—3.42)



A closure remover tool comprising a first member having a jaw, a second member having a jaw opposing said first jaw, means connecting said first and second members for relative sliding movement, a first finger grip on said first member and a palm grip on said second member,

and an extension finger grip having a U-shaped loop shaped to slip over said first and second members and to engage said first finger grip, said extension finger grip having finger elements, and connections between said finger elements and said loop positioning said finger elements between said first finger grip and said palm grip.

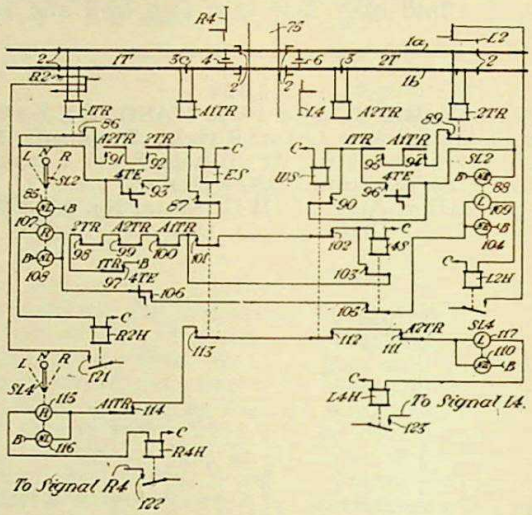
2,330,514
WHIP ROLL CONTROLLED LETOFF FOR LOOMS
Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application September 14, 1942, Serial No. 458,215
6 Claims. (Cl. 139—100)



1. In a letoff for a loom having a warp beam to supply warp threads which pass over a movably mounted whip roll the position of which determines the tension of the warp thread, the warp threads tending by their tension to turn the warp beam, an escapement mechanism connected to the warp beam which when unlocked permits the warp to turn the beam, a brake to arrest the escapement mechanism to prevent turning of the warp beam and movable to release the escapement mechanism, a weight operatively connected to the whip roll to resist movement thereof in a direction to lower warp tension, and control mechanism for the brake including means to move said brake to releasing position when the weight reaches a given point in the upward movement thereof, and means to exert a constant force on the brake to hold the latter in arresting position with respect to the escapement mechanism before the weight in the upward movement thereof reaches said given point.

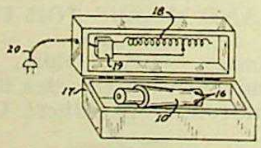
2,330,515
RAILWAY TRACK CIRCUIT APPARATUS
George R. Pflasterer, Greenville, Pa., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application May 27, 1941, Serial No. 395,402
3 Claims. (Cl. 246—112)

1. In combination, a stretch of first railway intersected at grade by a second railway and formed by insulated rail joints into two track sections one on each side of the intersection, an additional insulated rail joint placed in one rail of each of said track sections at a preselected point with respect to the intersection; a track circuit for each track section and including a current source connected across the rails at the end toward the intersection, a track relay connected across the rails at the other end and another relay connected around the additional insulated joint of the same section; signals for governing traffic in opposite directions over said intersection on said second railway, directional means controlled in part by said track relays to a first condition when said track sections are unoccupied and to a second condition when a train on said first railway approaches the intersection



and which means is restored to its first condition when such train recedes from the intersection, and a control circuit governed by said directional means and by said track relays and said other relays to permit either of said signals to be cleared when a train approaching the intersection on said first railway has passed over the intersection and the rear of the train has passed beyond the additional insulated joint of the track section through which the train is receding from the intersection.

2,330,516
MOUTHPIECE
Urban L. Plain, Minneapolis, Minn.
Application December 10, 1941, Serial No. 422,335
1 Claim. (Cl. 18—55)

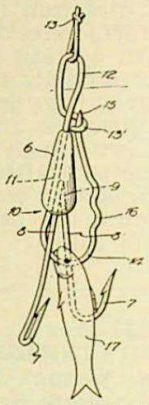


A process of producing an improved mouthpiece for smoker's use by forming a mouthpiece from initially fusible plastic material capable after being formed of receiving an impression in the outer surface thereof, making an impression in the formed mouthpiece with the teeth of the individual user, and then heat hardening the mouthpiece whereby a durable infusible plastic mouthpiece is obtained.

2,330,517
FISHING LURE
Joseph Ruig Rigandi, Westerleigh, N. Y.
Application July 8, 1942, Serial No. 450,126
9 Claims. (Cl. 43—40)

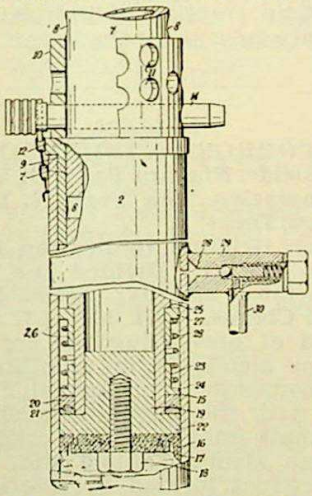
1. A fishing lure comprising in combination, a body member, a fish hook carried by and projecting from the body member, and a combined line-attaching means and bait carrier compris-

ing a single member extending through the body member with each of its ends extended beyond said body member, a line-attaching loop and a pin-retaining loop formed upon one end of said member, an open bait-carrying loop formed up-



on the other end of said single member, and a piercing point upon the extremity of the bait-carrying loop and adapted for removable engagement with the pin-retaining loop to close the bait carrying loop to retain a bait thereon.

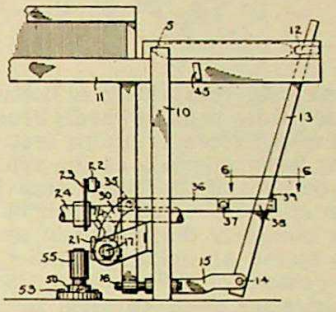
2,330,518
HYDRAULIC JACK
James Stewart Rothery, Ilford, England
Application October 28, 1941, Serial No. 416,881
In Great Britain June 24, 1941
10 Claims. (Cl. 121—46)



1. On an hydraulic jack comprising a cylinder, a ram operative in the cylinder, a ram sustaining element encircling the ram and supported solely by the cylinder and freely rotatable with respect to the ram and cylinder, said element having holes along its length at different distances from its ends and said ram having holes along its length, and a free pin to be passed through transversely registering holes in the sustaining element and in the ram whereby the ram is held against sinking with relation to the cylinder.

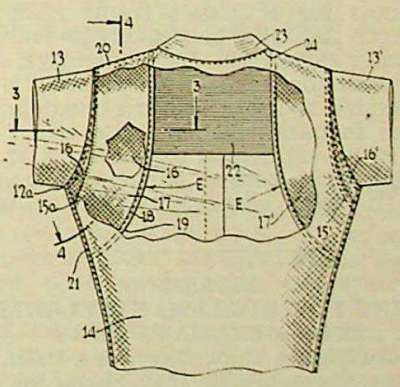
2,330,519
STOP FOR PICKER MECHANISMS
Elliot A. Santon, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application June 23, 1942, Serial No. 448,083
11 Claims. (Cl. 139—147)

1. A picker mechanism stop for a loom having a picker shaft provided with a stop arm, said stop including a stationary base member, a second member normally out of contact with said stop arm to be engaged and moved by the stop arm relatively to the first member when the shaft rocks on a picking movement thereof, one of said members being hollow to receive the other member and one of said members supporting the



other member, and a body of soft elastic material located within the hollow member for engagement with the other member to hold said members in normal relative position with the second member in position for engagement with said stop arm, said body being yieldable to permit relative movement of said members by the stop arm.

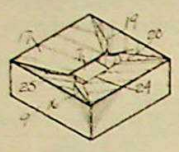
2,330,520
LADY'S GARMENT
Louise R. Saveth, Bronx, N. Y., assignor to White Swan Uniforms, Inc., New York, N. Y., a corporation of New York
Application August 30, 1940, Serial No. 354,819
1 Claim. (Cl. 2—93)



A nurse's uniform or the like fitted garment, comprising a front waist portion and a back portion, both having armhole sections which remain in fixed positions on a wearer after the garment is donned, a pair of sleeves, each sleeve being attached to an armhole section of the front waist portion, a pair of expansion members underlying said back portion and connecting said sleeves to the armhole sections of said back portion, each of said expansion members comprising an extension panel secured to a sleeve and an anchor panel secured to a back armhole section and joined to said extension panel, and an elastic panel stitched to said expansion members only along the juncture between said extension and anchor panels whereby said extension panels are held against movement inwardly of said garment by their attached anchor panels.

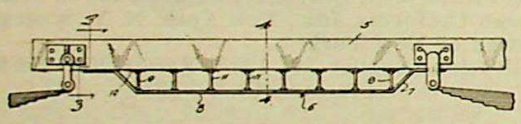
2,330,521
RECEPTACLE
Lester B. Scheide, Hartford, Conn.
Application June 6, 1939, Serial No. 277,603
3 Claims. (Cl. 229—43)

1. A receptacle formed from a rectangularly



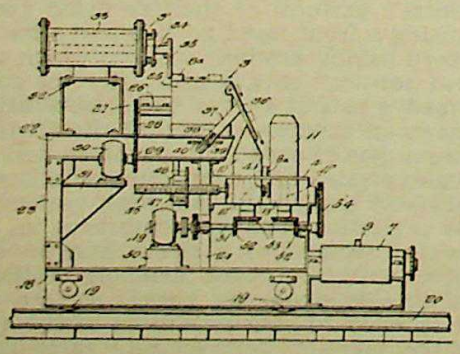
shaped blank and comprising a bottom, oppositely disposed sides bent upwardly from each of the edges of said bottom, crimping sections yieldingly joining adjacent ends of the sides at each of the four corners of the blank, tops folded inwardly from opposite edges of each of the sides and sloping obliquely downward at an angle to the sides to bound an opening smaller than the area of the bottom of the box and also adapted to slope at a lesser angle to close said opening, and interengaging means on the adjacent ends of two adjacent downwardly sloping tops creating in connection with said crimping sections elements acting in cooperation for retaining said parts in positions with the opening open or closed or in any intermediate position.

2,330,522
CHASSIS TRUSS BAR
Henry Schutz, Margate City, N. J.
Application August 22, 1941, Serial No. 407,969
2 Claims. (Cl. 280—106)



1. A truss for a chassis frame member and comprising a flat truss bar having its ends welded to the under side of the frame member, said bar adjacent its ends being inclined away from the frame member to space the intermediate portion of the bar in parallelism thereto, and T-shaped supports of a width equal to the width of the bar and having their bottom portions welded to the bar and their top portions welded to the frame member.

2,330,523
MACHINE FOR ROLLING STEEL BILLETS INTO MERCHANT BARS
John Blaine Shaw, Torrance, Calif.
Application November 28, 1940, Serial No. 367,646
6 Claims. (Cl. 80—48)



1. An apparatus for converting billets into bars, which comprises a four-high bank of main horizontal rolls providing reducing passes at three different elevations, feeding and receiving driven conveyors located at each of said elevations for moving the billets in a direction to or from the horizontal rolls, the receiving and successive feeding conveyors being laterally spaced apart, means bodily movable in a direction transverse to the movement of the billets effected by said conveyors associated with certain of the receiving conveyors for shifting partially formed bars from said receiving conveyors into position to fall to succeeding feeding conveyors, and vertically disposed rolls associated with such feeding rolls for receiving between them partially formed bars discharged from the receiving conveyors by said pushers and for guiding the same through the succeeding pass of said rolls.

2,330,524
CORROSION INHIBITOR
James Edgar Shields, Niagara Falls, N. Y., assignor to Alox Corporation, New York, N. Y., a corporation of New York
No Drawing. Application June 16, 1941, Serial No. 398,337
5 Claims. (Cl. 252—392)

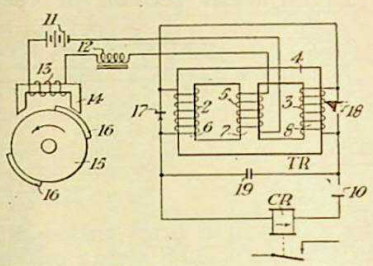
1. A corrosion-inhibiting composition soluble in mineral oils including gasoline and in normally liquid alcohols of the type of ethyl alcohol, comprising a mixture of organic reaction products of an organic amine having at least 5 carbon atoms per molecule and selected from the group consisting of alkyl amines, cyclo-paraffinic amines and aryl amines, with a mixture of substantially aliphatic saturated carboxylic acids derived from a normally liquid fraction of petroleum by liquid-phase partial oxidation of the latter.

2,330,525
CORROSION INHIBITOR
James E. Shields, Niagara Falls, N. Y., assignor to Alox Corporation, New York, N. Y., a corporation of New York
No Drawing. Original application June 16, 1941, Serial No. 398,337. Divided and this application September 29, 1941, Serial No. 412,911
5 Claims. (Cl. 260—632.5)

1. Method of preventing the corrosive action of an aqueous alcohol on an aluminum or aluminum alloy container therefor, which consists in associating with the alcohol in such container a relatively small amount, of the order of 0.5% by weight, of an alcohol-soluble and water-soluble esterified product formed by esterifying with a relatively low molecular weight aliphatic alcohol the esterifiable constituents of a steam distillate of an oxidation reaction mixture produced by subjecting a normally liquid petroleum hydrocarbon mixture to controlled liquid-phase partial oxidation, which esterified product consists essentially of alkyl esters of a mixture of substantially saturated aliphatic carboxylic acids having an average neutralization number of 330, an average saponification number of 390 and a mean molecular weight of 170.

4. An aqueous alcohol containing a relatively small amount, of the order of 0.5% by weight, of an alcohol-soluble and water-soluble composition consisting predominantly of lower alkyl esters of a mixture of substantially saturated aliphatic carboxylic acids having an average neutralization number of 330, an average saponification number of 390 and a mean molecular weight of 170, said acids being derived from a normally liquid petroleum fraction by liquid-phase partial oxidation.

2,330,526
POLARIZED RELAY CONTROL
Andrew J. Sorensen, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 16, 1941, Serial No. 402,605
4 Claims. (Cl. 175—320)



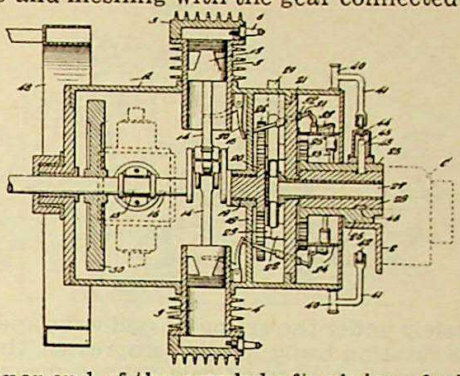
1. In combination with a source of periodically varying current, a condenser, an electroresponsive device responsive to current of a given relative polarity only, a transformer comprising a magnetizable core having two magnetic circuits each including a common portion of the core, a supply winding disposed on said common core portion and connected to said current source, a pair of output windings disposed one on each of said magnetic circuits of said core, a circuit connecting said condenser in series with said electroresponsive device across said output windings in series, said windings being arranged so that voltages having opposite instantaneous polarities are induced in said windings due to current in said supply winding, and two asymmetrical units one connected in multiple with each of said output windings in said circuit, said units being poled to provide a shunt path for current of said given polarity induced in either output winding.

2,330,527
POLYMERIZATION OF STYRENE-TYPE COMPOUNDS
Hanns Peter Staudinger, Ewell, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application September 30, 1940, Serial No. 359,157. In Great Britain October 13, 1939
4 Claims. (Cl. 260—86)

1. The production of a styrene-type polymerization product by subjecting an admixture of styrene with polymers thereof to polymerizing conditions, in the presence of an ester of crotonic acid having at least two double bonds in the molecule separated from one another by at least one carbon atom, until substantially complete polymerization is effected.

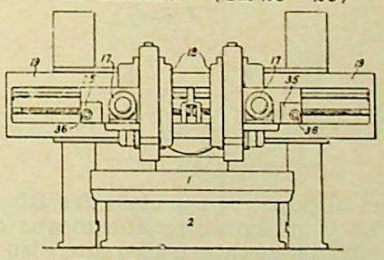
2,330,528
ROTARY INTERNAL COMBUSTION MOTOR
John Stucke, Philadelphia, Pa.
Application June 19, 1940, Serial No. 341,375
1 Claim. (Cl. 123—44)

In a rotary internal combustion engine including a cylinder carrying rotary crank case and a rotary crankshaft extending through one end of the crank case with pistons in the cylinders connected with the cranks of the shaft, a stationary hub extending into the opposite end of the crank case and around which said opposite end of the crankcase rotates, a first partition extending across the crank case adjacent the inner end of the hub, a second partition extending across the crank case and located between the cylinders and the first partition and in which the inner end of the crank shaft is journaled, a stationary gear on the inner end of the hub, a gear connected with the inner end of the crank shaft, stub shafts passing transversely through the first partition and rotatably arranged therein, pinions fastened to the inner ends of the stub shafts and meshing with the gear connected with



the inner end of the crankshaft, pinions fastened to the outer ends of the stub shafts and meshing with the gear connected with the inner end of the hub, whereby rotary movement of the crankshaft is imparted to the crankcase with the crankcase rotating in an opposite direction to that of the crankshaft.

2,330,529
VERTICAL BORING MILL
Alfred Trosch, Brighton, and Worthy J. F. Forward, Rochester, N. Y., assignors to Consolidated Machine Tool Corporation, Rochester, N. Y., a corporation of Delaware
Application August 31, 1942, Serial No. 456,778
10 Claims. (Cl. 29—29)

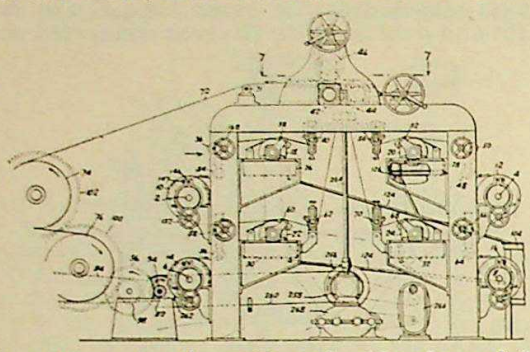


1. In a vertical boring mill of the type embodying a horizontal work table rotatable in a horizontal plane about a vertical axis, a gear mounted on the work table, a pinion engaging said gear, speed reduction gearing operating said pinion, and an electric motor connected to the speed reduction gearing, the combination with a tool-head feed mechanism and a separate electric motor connected to the feed mechanism, of a circuit for the feed motor, a controlling switch in said circuit, means on the work table engaging said switch once at each rotation thereof acting to start the feed mechanism motor, and dial adjustable means controlled from the tool head and acting automatically after a predetermined number of turns of the feed mechanism motor acting to stop the same before the work table completes one rotation.

2,330,530
PAPER LAMINATING MACHINE
John N. Tuttle, Philadelphia, Pa., assignor to The Glassine Paper Company, West Conshohocken, Pa., a corporation of Delaware
Application August 12, 1939, Serial No. 289,740
10 Claims. (Cl. 154—37)

1. An apparatus for laminating webs of paper

or the like comprising a metal roller, means for driving said metal roller, and a resilient roller arranged to press together and against said metal roller a plurality of said webs having adhesive between them, said resilient roller being rotat-



able solely under the action of said webs and during its rotation being locally compressed, thereby constituting a load upon said driving means applied through said webs.

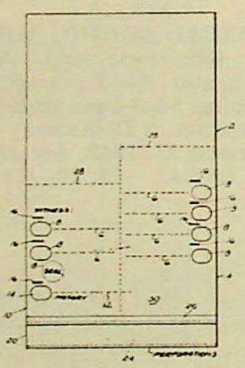
2,330,531

MEANS FOR IDENTIFYING DOCUMENTS

Adolph F. von Soden, Long Beach, Calif.

Application October 6, 1941, Serial No. 413,855

4 Claims. (Cl. 283—7)



1. A sheet of paper of the class described, having a plurality of signature line means on said paper for placing signature thereon, also having marking means at each signature line means for affixing finger-print imprint therein, and a folded over finger print pad means which is detachably connected to said sheet of paper for supplying the finger-print ink for each finger-print mark, a gummed tape means at the folded over edge of said pad means for holding the pad edge in folded over position and upon said sheet of paper, and perforations lying parallel to said folded over edge of said pad and passing through said gummed tape means and said sheet of paper at the point adjacent thereto, for detaching said pad from said sheet of paper when not in use.

2,330,532

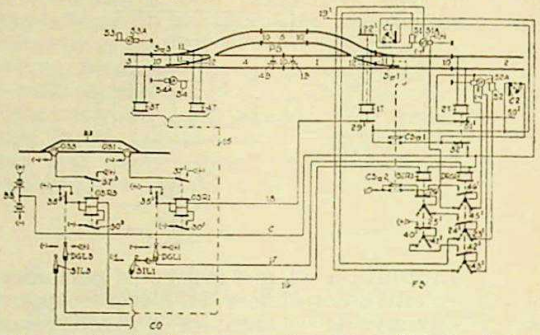
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS

Sedgwick N. Wight, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application October 30, 1941, Serial No. 417,134

19 Claims. (Cl. 246—3)

1. In combination with a railway track including a passing siding consisting of a side track and a main siding section adjacent thereto and connected to two single track stretches by two track switches; signals associated with each of said track switches for governing the movement of traffic in both directions over such track switches; a first track circuit including a source of current and a track relay for the main siding section and extending from one pair of switch points to the other pair of switch points of said track switches; a track circuit including a track relay for an adjacent section of each of said



single track stretches; and means for each track switch controlled by contacts reflecting the conditions of said first track circuit, by contacts of the track relay for the adjacent track section of the adjacent single track stretch, by contacts of the adjacent track switch and by contacts of the signals associated therewith, for manifesting when a train moves over such particular track switch.

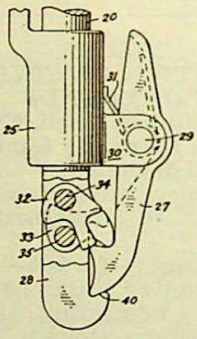
2,330,533

WINDOW SASH CONTROL MECHANISM

Esmond F. Wiley, Berkeley, Calif., assignor to Universal Window Company, Berkeley, Calif., a corporation of California

Application May 27, 1941, Serial No. 395,396

3 Claims. (Cl. 20—42)



1. A clutch for connecting a window sash with a travel bar connected to adjacent sashes to be opened and closed thereby comprising, an open jaw carried by the travel bar, a latch movable past said jaw upon opening and closing movement of said sash, and normally engaging the jaw for downward movement, and two dog members pivoted adjacent the jaw, the first of said dog members engaging the latch to swing it out of the jaw upon its first upward movement, and the other dog member causing the latch to enter the jaw in a position where it will not be effected by the first latch upon its next upward movement.

2,330,534

MUFFLER

Colinton Notman Wood, Victoria, British Columbia, Canada

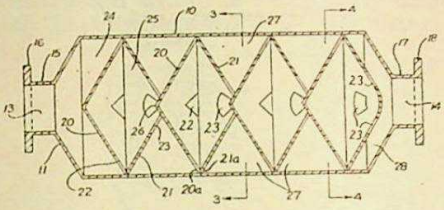
Application September 18, 1941, Serial No. 411,390

In Canada August 12, 1941

8 Claims. (Cl. 181—57)

1. A muffler for internal combustion engines, comprising a casing, inlet and outlet openings

at opposite ends of the casing, said inlet opening being adapted to be connected to the exhaust pipe of an engine, a plurality of opposed pairs of hollow cones mounted in the casing, the bases of the walls of said cones being secured to the



wall of the casing, and a plurality of apertures formed in the cones, the apertures of one cone being staggered in relation to the apertures of the next cone, whereby a tortuous passage is formed through the casing from the inlet to the outlet thereof.

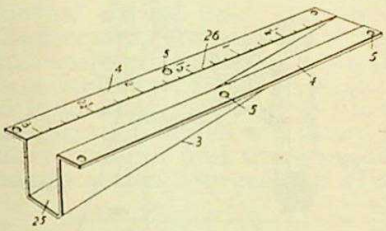
2,330,535

DEVICE FOR DETERMINING LENGTH OF WALKING STICKS TO SUIT PURCHASERS

George Waterworth Younger, Dorking, England

Application April 24, 1941, Serial No. 390,178

3 Claims. (Cl. 33—169)



1. A device to determine the correct length to which a selected walking stick, umbrella stick or the like is to be adjusted for the use of a particular individual, comprising a base to provide a ground-end contact for a stick of proper length, and a socket member cooperating with the base to receive the ground end of a selected stick, said socket member comprising a trough-like member having a bottom below the said base and inclined from one end to the other.

2,330,536

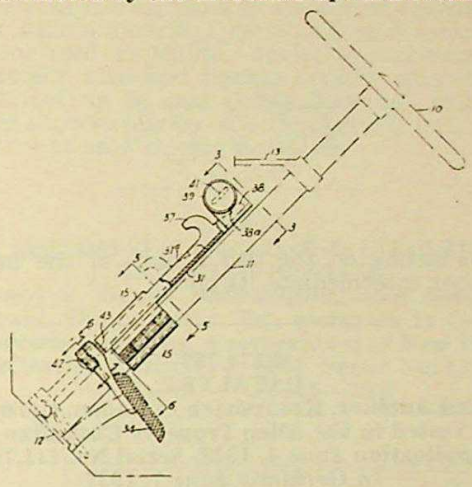
MEANS FOR LOCKING VEHICLES AGAINST SELF-PROPULSION

Maximilian E. Zimmermann, Los Angeles, Calif.

Application June 16, 1941, Serial No. 398,282

10 Claims. (Cl. 70—199)

9. In a pedal locking device for an automobile, a bracket, means extending from one side of said bracket to clamp it to the steering column of the automobile, said bracket when in applied position having extending upwardly through it a guide channel which is angular in cross section, said bracket having an upward extension containing a channel which alines with the channel of the bracket and forms an upward continuation thereof, the part of said guide channel which occupies said extension being channel-iron shaped with its open side directed away from the steering column when the device is in its applied position, a bar fitted in a slidable non-turnable relation to said guide channel, a pair of pedal arresting arms secured to said bar below said bracket, said arms when the device is in its mounted position passing astride the steering column and being positioned at all times at the side of the steering column opposite to said bar to underlie the pedals of the automobile, and means carried by the aforesaid upward extension



of said bracket to lock said bar in an elevated position in relation thereto, the upper part of said bar having a finger-hold extension which projects from the open side of the channel-iron shaped part of said guide.

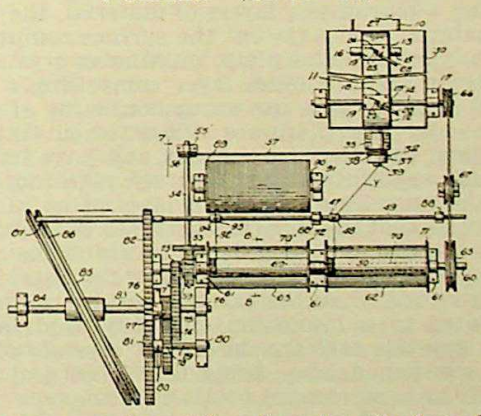
2,330,537

FIBER SPINNING APPARATUS

Vicente Aldaba, Manila, P. I.; vested in the Alien Property Custodian

Application July 18, 1941, Serial No. 403,030

7 Claims. (Cl. 57—28)



1. In apparatus of the class described, positively driven means, two reels frictionally driven by the latter, means mounting said reels for movement radially with respect to the axis of rotation of said positively driven means, a traverse rod, means operable by one of said reels to reciprocate the traverse rod, follower eyelets on said rod, one of the eyelets being located for passage of spun yarn therethrough to one of said reels, a roll having a cord thereon, said cord passing through the other eyelet and being connected to the other reel.

2,330,538

COMBINED SAFETY GUARD AND TOY

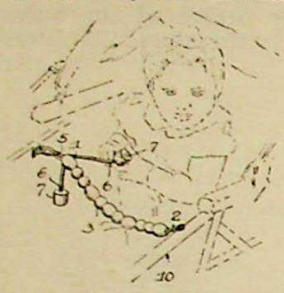
Paul E. Allen, Skokie, Ill.

Application August 23, 1941, Serial No. 408,020

3 Claims. (Cl. 155—189)

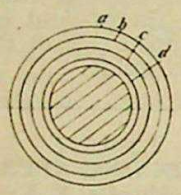
3. A combined guard and toy comprising a flexible cord-like member doubled back to provide two strands with free ends carrying block-like members and means adjacent the opposite ends of the member for readily attaching this

member to the opposite sides of a baby's buggy, carriage, stroller, crib, bassinet and the like, and



beads strung on the two strands of the flexible member intermediate its ends.

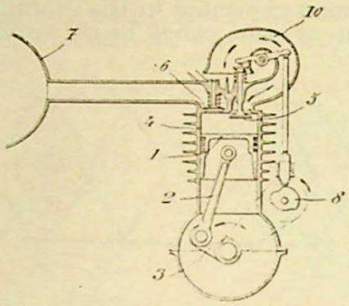
2,330,539
CATALYST
Ruland Auchter, Konigsbach in Baden, Germany; vested in the Alien Property Custodian
Application June 4, 1938, Serial No. 211,789
In Germany June 7, 1937
4 Claims. (Cl. 252—234)



1. An active platinum catalyst comprising a wire gauze, each of the wires of said gauze comprising a plurality of layers of material, the layer of material next adjacent the surface comprising a catalytically active platinum alloy of crystalline structure and the outer layer comprising a material selected from the group consisting of platinum and the platinum alloys which initiate chemical reactions more easily and have less resistance to disintegration than the platinum alloy of said inner layer, the outer layer being of such thickness that the innermost crystals of said outer layer are disposed at a depth to which the reaction penetrates and the crystals of the outer layer are loosened when the catalyst has been initially activated to a maximum efficiency, said innermost crystals and the outermost crystals of the first mentioned layer being interlaced and connected by heat merged bonds with the outermost crystals of said inner layer so that after the catalyst has been activated the crystals of the outermost layer will be supported by the crystals of the inner layer.

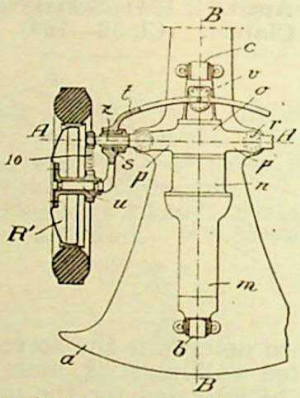
2,330,540
VOLUMETRIC COMPRESSOR
Ludovic Audubert, Le Kremlin-Bicetre, France; vested in the Alien Property Custodian
Application April 1, 1939, Serial No. 265,577
In Luxemburg April 16, 1938
3 Claims. (Cl. 230—211)

1. A compressor having a crankshaft and a piston connected to said crankshaft and including a suction orifice, a first valve for controlling said suction orifice, a delivery orifice, a compressed air reservoir connected to said delivery orifice, an automatically operating valve having a return spring to control the delivery orifice, a cam for operating said first valve, means for driving said cam at half the speed of the crankshaft of the compressor, whereby during at least a portion of the compression stroke of one complete cycle said first valve remains open and during the following complete cycle said first



valve closes during the compression stroke of the piston, thereby permitting the delivery of air to the compressed air reservoir.

2,330,541
SHOCK ABSORPTION MECHANISM FOR AXLES OF MOTOR CARS
Béla Barényi, Boblingen, Germany; vested in the Alien Property Custodian
Application December 3, 1940, Serial No. 368,291
In Germany December 6, 1939
16 Claims. (Cl. 180—73)

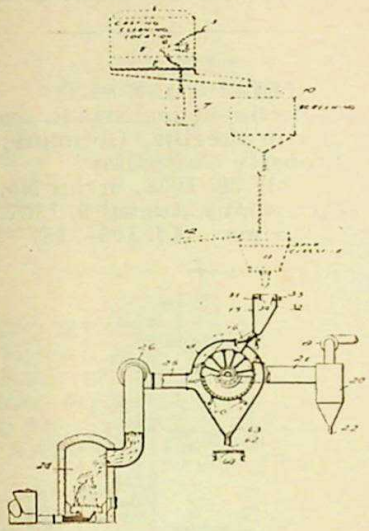


2. In a motor car, a pair of opposite road wheels, a vehicle frame, a supporting piece, means for joining the supporting piece to the vehicle frame in such a manner that it may swing with respect to it around a longitudinal axis of the vehicle, bearing pins on the supporting piece having a common axis extending substantially transverse to the longitudinal axis of the vehicle, a rigid axle connecting the pair of wheels to each other, means for journaling the rigid axle to the bearing pins, means for journaling the wheels on the rigid axle, so that the turning axis of the wheels is displaced relative to the axis of the said bearing pins in the longitudinal direction of the vehicle, whereby the wheels together with the rigid axle may execute a swinging motion around the axis of the bearing pins, an axle gear mounted on the supporting piece, a transverse shaft driven by the axle gear extending through the bearing pins, and means for transmitting the drive from the transverse shaft onto the wheels.

2,330,542
DEWATERING OF SUSPENDED SOLIDS
August J. Barnebl, Chicago, Howard D. Grant, Flossmoor, and August C. Barnebl, Chicago, Ill., assignors to Swenson Evaporator Company, Harvey, Ill., a corporation of Illinois.
Application December 26, 1940, Serial No. 371,818
3 Claims. (Cl. 210—62)

3. The method of preparing for filtration to recover the solids therefrom a varyingly concentrated liquid suspension of granular solid par-

ticles, the filtering being of the type wherein the passage of particles through the filter medium is prevented by bridging action among particles, characterized by the steps of continuously passing the variably concentrated suspension to a settling region and there settling the solids to a concentration which is essentially uniform but too high to flow properly to the filter medium

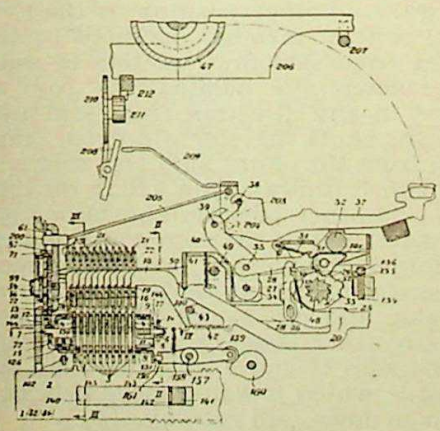


and removing excess liquid continuously from the settling region, and withdrawing the excessively concentrated mixture from the settling region and adding thereto liquid at a uniform rate and in amount sufficient to produce a uniform concentration which will afford proper flow to the filter medium and there produce the desired bridging action between particles.

2,330,543

ACCOUNTING MACHINE

Otto Barthelmes, Zella-Mehlis, Thuringia, Germany; vested in the Alien Property Custodian
Application July 8, 1940, Serial No. 344,418
In Germany July 6, 1939
18 Claims. (Cl. 197—19)

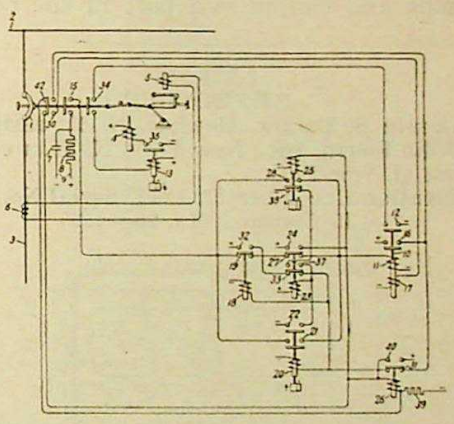


1. In an accounting machine, the combination comprising a plurality of denominational units each including a differential member and a storing device movable into engagement with said differential member to be set up in accordance with the value represented by the position thereof and movable out of engagement with said differential member, a single typewriting unit including a single set of type bars and a single set of type bar selecting members, a controlling device cooperatively coordinated to said typewriting unit and said storing devices and adapted to cause one of said storing devices at a time to actuate one of said type bar selecting members, while said storing devices are out of engagement with said differential members, and means for moving said controlling device to successive engagement with said storing devices, whereby the digits set up in said denominational units are typed successively by said typewriting unit under control of said storing devices.

2,330,544

AUTOMATIC RECLOSING CIRCUIT BREAKING SYSTEM

Edward E. Bauer, Philadelphia, and Anton W. Fraps, Upper Darby, Pa., assignors to General Electric Company, a corporation of New York
Application February 3, 1942, Serial No. 429,416
5 Claims. (Cl. 175—294)



1. In combination, an electric circuit, a circuit breaker in said circuit, fault responsive means for effecting the opening of said circuit breaker, a normally charged condenser, a relay having a low impedance operating winding, means responsive to a predetermined energization of said relay winding for effecting the closing of said circuit breaker, means responsive to the initial opening of said circuit breaker for effecting the immediate connection of said relay winding across said condenser, timing means having a predetermined timing operation, means responsive to initial energization of said relay winding for effecting the operation of said timing means and the immediate disconnection of said relay winding from across said condenser, means controlled by said timing means and said circuit breaker for effecting the connection of said relay winding across said condenser when said timing means completes its timing operation if said circuit breaker is open at that time, and means for charging said condenser when said relay winding is not connected thereto.

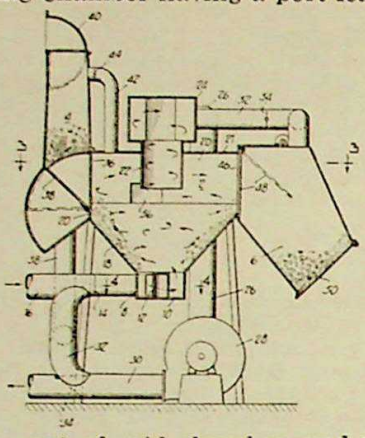
2,330,545

DESICCATING APPARATUS

Edouard Le B. Benoit, Brooklyn, N. Y.
Application June 10, 1939, Serial No. 278,431
6 Claims. (Cl. 34—57)

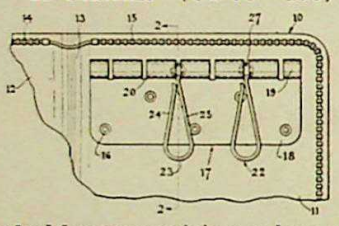
3. In an apparatus for treating material of the class described, the combination of a treating chamber vertically arranged, means for directing a gaseous medium upwardly through the chamber in a generally spiral path, a magazine for receiving the material to be treated having a port leading into the upper part of said treating chamber, means for opening and closing said

port, a collector for receiving the material from the treating chamber having a port leading from



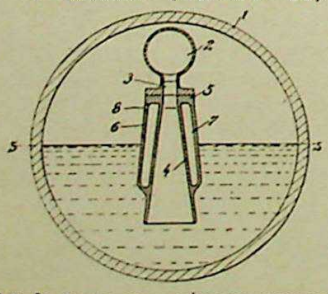
the upper part of said chamber, and means for opening and closing said port in the collector.

2,330,546
KEYHOLDER
Benjamin S. Berger, Hewlett, N. Y., assignor to Philip Florin, Inc., New York, N. Y., a corporation of New York
Application December 12, 1940, Serial No. 369,790
15 Claims. (Cl. 70—456)



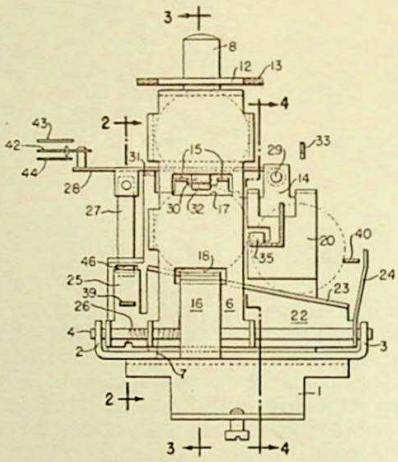
1. A key holder comprising a key plate having a flexible, resilient body portion, a pair of relatively spaced members firmly annexed thereto, one of said members being provided with a recess, a key-retaining element having a shank portion smaller than the space between said members, and a head which is larger than the space between said members and so constructed as to be adapted for reception in said recess, said members being so relatively spaced and said body portion being so constructed that when said body portion is flexed the space between said members will become larger than said head, whereby said head may then be freely removed from or inserted between said members.

2,330,547
HIGH-PRESSURE STEAM GENERATOR
Wilhelm Beyer, Berlin-Frohnau, Germany; vested in the Alien Property Custodian
Application September 21, 1939, Serial No. 295,885
In Germany October 7, 1938
4 Claims. (Cl. 122—31)



1. In a high-pressure steam generator a boiler drum, a water and a steam carrying space in said drum, a superheated steam carrying main in said drum, nozzles connected with said steam main for blowing superheated steam into the said water space, steam jackets surrounding said nozzles, said steam jackets being closed towards the said water space with their closed ends extending below the lower water level of the steam generator and means located above the boiler water level for supplying steam to said jackets.

2,330,548
TELEPHONE SET
Georg Biniek, Berlin-Siemensstadt, and Heinrich Langner, Berlin-Steglitz, Germany; vested in the Alien Property Custodian
Application July 28, 1938, Serial No. 221,702
In Germany August 9, 1937
9 Claims. (Cl. 194—16)

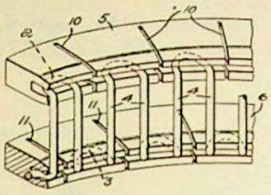


1. A coin collecting device for a movable table telephone set, comprising a coin chute through which coins are adapted to move under the influence of gravity, a coin slot for introducing coins into said chute, means for temporarily holding a coin in one position in said chute against the force of gravity when deposited in the slot, said coin, when in said position, being removable from said chute via said slot by inverting said table telephone set, means releasing the coin to allow it to move to another position in the chute, an electrical contact member operated by the coin in moving from said first position to said other position, means for holding the coin against movement in any direction from said other position in the chute thereby to prevent removal of said coin from the chute, said last means including an inclined runway upon which the coin rests when in said other position and means preventing the movement of the coin down said runway, means for disabling said preventing means at times thereby to permit the coin to move down the runway, and means for at times displacing the runway from beneath the coin, thereby to cause said coin to move in a direction different than that in which it would move if it were permitted to go down said runway.

2,330,549
METHOD OF FABRICATING PISTON RINGS
Thomas A. Bowers, Mattapoisett, Mass., assignor to Power Research Corporation, Boston, Mass., a corporation of Massachusetts
Application July 2, 1941, Serial No. 400,823
12 Claims. (Cl. 29—156.6)

1. That improvement in methods of making piston rings which comprises attaching to spaced-

apart parallelly arranged strips of piston ring material a plurality of supporting portions of a second piston ring material, then cutting one of the strips along lines of cutting which extend transversely of the strips to form a plurality of sepa-



rated segments, each of which includes two of the said supporting elements attached thereto, and cutting the other of the strips along lines of cutting which extend transversely between the said first lines of cutting.

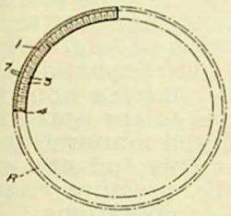
2,330,550

RING MEANS FOR PISTONS

Thomas A. Bowers, Mattapoisett, Mass., assignor to Power Research Corporation, Boston, Mass., a corporation of Massachusetts

Application August 20, 1941, Serial No. 407,575

3 Claims. (Cl. 309—44)



1. A piston ring comprising a strip of piston ring material reversely bent upon itself to form webs and connecting crown portions, said crown portions at one side of the ring extending inward throughout a part only of the radial width of the ring, edges of said strip of piston ring material constituting the outer periphery of the ring, a retaining ring member formed of resilient sheet metal, said retaining ring member being of a substantially U-shaped cross section and lying in contact with the reversely folded strip of piston ring material along three sides thereof, said retaining ring being formed with a plurality of overlapping openings which define circumferentially movable segments, each opening extending at least partly across each side of said retaining ring, the said connecting portions of the reversely bent strip at one side of the ring overlying alternate extremities of the said overlapping openings, thereby to close alternate openings at their outer extremities.

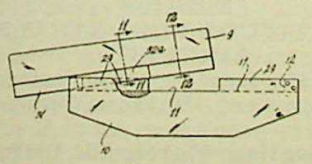
2,330,551

WORK GUIDE

Henry E. Brennan, St. Louis, Mo., assignor to The Medart Company, St. Louis, Mo., a corporation of Missouri

Application March 13, 1942, Serial No. 434,475

8 Claims. (Cl. 80—51)



1. A device for guiding and supporting stock between cooperating work rolls, said device comprising a guide having an upper stock supporting edge, and a support for said guide, said guide and support having an interlocking tongue-and-groove connection permitting longitudinal movement of said guide on said support, the entire grooved portion of said interlocking connection constituting an immovable part of one of said guide and support, the interlocking portions of said connection being interrupted to permit removal of said guide laterally from said support solely by movement of said guide longitudinally of said support a distance equal to the length of the interlock from fully interlocked position.

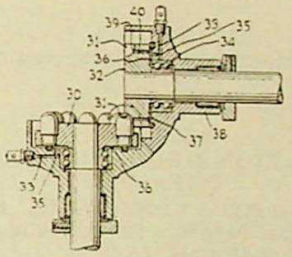
2,330,552

LUBRICATED HINGED SHAFT JOINT

Stephen H. Brooks, New York, N. Y., assignor to Brooks Equipment Corporation, New York, N. Y., a corporation of New York

Application November 3, 1942, Serial No. 464,364

1 Claim. (Cl. 74—468)



In a lubricated shaft and gear, including, in combination: a housing formed with an orifice for receiving a shaft; a shaft positioned in the orifice; a gear formed with tooth receiving cavities on one face and a reduced portion on the opposite face attached to the end of the shaft, said gear formed with through ducts extending from the tooth receiving cavities to the opposite face reduced portion; means, including ducts in the housing, to lead lubricant to the reduced portion of the gear whereby lubricant is supplied to the cavities.

2,330,553

FERRIC OXIDE AND ITS PREPARATION

Benjamin F. Butler, New York, N. Y.

No Drawing. Application December 17, 1938, Serial No. 246,381

4 Claims. (Cl. 23—200)

1. The cyclic process of making ferric oxide from nitric acid solutions which comprises decomposing the nitric acid by adding metallic iron thereto and thereby forming ferric nitrate and oxides of nitrogen and of iron, reconverting said oxides of nitrogen to nitric acid by reaction with water and oxygen and returning said nitric acid to the reaction chamber to react with more iron and separating and recovering the ferric oxide from the reaction mixture.

2,330,554

DIE PRESS ATTACHMENT

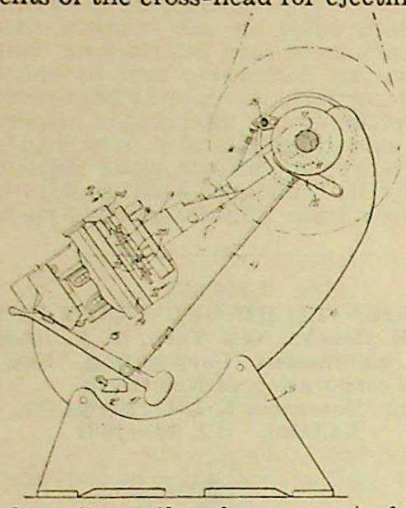
Allan M. Cameron, Chicago, Ill., assignor to Cameron Can Machinery Co., Chicago, Ill., a corporation of Illinois

Application July 25, 1940, Serial No. 347,448

4 Claims. (Cl. 113—50)

1. In a die press, the combination of a reciprocable cross-head, a plurality of movable dies carried thereby, a plurality of stationary dies positioned to receive said movable dies, ejectors mounted on and movable with the movable dies and adapted to move transversely across the ends of the movable dies, and means for moving said ejectors across the faces of their respective

dies in timed relation with the reciprocable movements of the cross-head for ejecting formed



articles from the paths of movement of the movable dies.

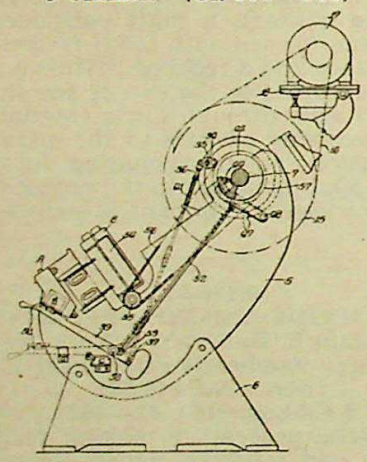
2,330,555

STOP MOTION MECHANISM FOR DIE PRESSES

Allan M. Cameron, Chicago, Ill., assignor to Cameron Can Machinery Co., Chicago, Ill., a corporation of Illinois

Application September 9, 1940, Serial No. 355,987

3 Claims. (Cl. 192—144)



1. The combination of a die press including a shaft, a fly wheel, a spring actuated clutch pin for connecting said shaft and wheel, a clutch shoe for withdrawing said clutch pin from connecting position, an electric motor connected to drive said wheel, a brake for said shaft, and a control lever connected to said brake and to said clutch shoe, of an armature mounted on said lever, electro-magnetic means cooperable with said armature for holding said lever in starting and running position, an electric circuit for energizing said electro-magnetic means, said circuit including a pair of branches each provided with a switch so that the opening of both switches is necessary to effect deenergization of said electro-magnetic means, a detector circuit arranged to open one of said switches upon the occurrence of an abnormality of an operation of the press, and means operable by said shaft for opening the other switch immediately after the clutch pin has passed the clutch shoe to thereby release said lever and cause the application of the brake to said shaft during substantially one revolution of the shaft before the clutch pin is withdrawn by said shoe.

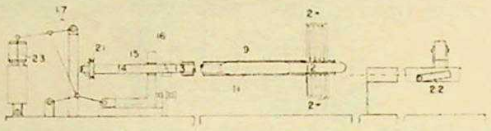
2,330,556

METHOD OF ENLARGING TUBE ENDS

Arvid A. Carlson, Syracuse, N. Y., and Horace Edmund Karig, Rutherford, N. J., assignors to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware

Application June 13, 1940, Serial No. 340,328

7 Claims. (Cl. 29—157.3)



1. A method of producing a finned tube and providing relatively thick walls at enlarged ends thereof, consisting in inserting a mandrel having one portion thereof of reduced diameter within a tube, positioning the reduced portion of the mandrel at one end of the tube, applying pressure engaging means to the tube whereby the tube and mandrel will be advanced and fins simultaneously extruded from the outer surface of the tube and the tube at said end caused to flow radially to form a thick wall at the tube end, preventing the advance of the mandrel beyond a desired point, continuing to advance the tube for a predetermined distance, operating a control device when the tube has advanced the predetermined distance and shifting the mandrel responsive to operation of said device to position the reduced portion of the mandrel at the opposite end of the tube, likewise applying the pressure engaging means to the opposite end of the tube about the reduced mandrel portion to provide thick walls at this end and enlarging the tube ends after the pressure engaging means have completed their operations.

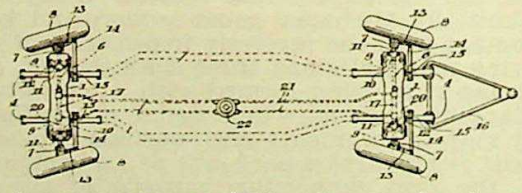
2,330,557

VEHICLE SUSPENSION AND STEERING MECHANISM

Reginald Collis, Ottawa, Ontario, Canada

Application September 21, 1942, Serial No. 459,142

19 Claims. (Cl. 280—33.55)



1. A suspension and steering mechanism for a vehicle, comprising an axle, means in connection with said axle adapted to carry the weight of said vehicle below the axis of the road wheels and permit relative lateral movement of the axle and the vehicle in a horizontal plane, a stub axle for a road wheel swingably connected at each end of said axle, and tie rod means coupled to steering arms on said stub axles, the tie rod means being fixed to move laterally with said vehicle in relation to said axle.

2,330,558

HIGH ALTITUDE FUEL SYSTEM FOR AIRCRAFT

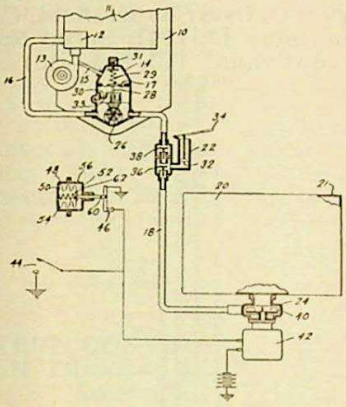
Russell R. Curtis, Dayton, Ohio, assignor to Curtis Pump Company, Dayton, Ohio, a corporation of Ohio

Original application March 18, 1940, Serial No. 324,658. Divided and this application July 10, 1943, Serial No. 494,163

5 Claims. (Cl. 158—36.4)

1. A fuel system comprising a fuel tank, a

carburetor, a fuel line from said tank to said carburetor, a fuel pump in said fuel line, an auxiliary pump in said fuel line between the inlet to the fuel pump and the tank for augmenting fuel pressure to the inlet of the fuel pump, both of said pumps having passes associated therewith for passage of fuel from the tank to the carburetor even when only one of said pumps is



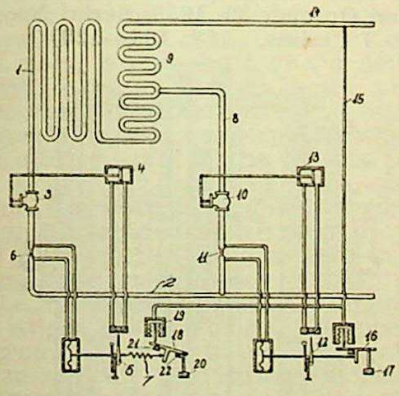
operating, independent driving means for each pump, and a device operated in one direction by air pressure and in the reverse direction by fuel pressure associated with said fuel pump to maintain a constant pressure differential between the fuel pressure at the carburetor inlet and the air pressure existing at the point where the fuel is introduced into the air for forming a combustible mixture.

2,330,559

VAPOR GENERATOR OR BOILER

Gustav Decker and Ferdinand Riedel, Berlin, Germany; vested in the Alien Property Custodian

Application July 13, 1939, Serial No. 284,318
In Germany April 6, 1938
7 Claims. (Cl. 122—451)



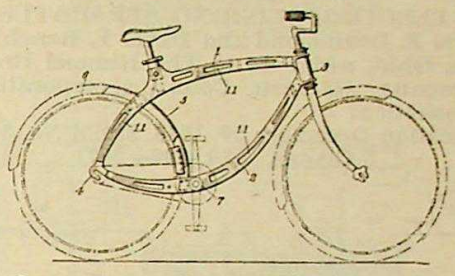
1. Apparatus for automatically controlling the operation of a vapor generator having a once-through fluid passage receiving liquid at one end and delivering vapor at the other end, comprising a main feed conduit communicating with the inlet end of said passage, an auxiliary feed conduit leading to the vapor part of said passage, first impulse means responsive to the generator load variations, second impulse means responsive to the quantity of liquid flowing through the auxiliary conduit, and a control valve in said auxiliary conduit connected to be controlled by said first and said second impulse means.

2,330,560

FRAME FOR CYCLES AND THE LIKE

Marius Descos, Saint-Etienne, France; vested in the Alien Property Custodian

Application May 28, 1941, Serial No. 395,678
In France October 30, 1940
8 Claims. (Cl. 280—281)



1. A frame for cycles and the like comprising a steering fork adapted to receive a front wheel; a steering tube wherein said fork is pivotally supported; a first arcuate member extending from the upper part of said steering tube substantially in a horizontal direction and ending at the rear in a substantially oblique and downward direction, said first member being formed of two flat substantially vertical elements in spaced mutual relation and slightly diverging from front to rear; a second arcuate member extending from the lower part of said steering tube in a substantially oblique and downward direction and ending at the rear in a slightly oblique and upward direction, said second arcuate member being also formed of two flat substantially vertical elements in spaced mutual relation and slightly diverging from front to rear; means adapted to receive a rear wheel axle, said means connecting with each other the rear ends respectively of the two right elements and of the two left elements of said first and second members; and an arcuate transverse member connecting said first and second arcuate members, said transverse member being substantially concentric to said means.

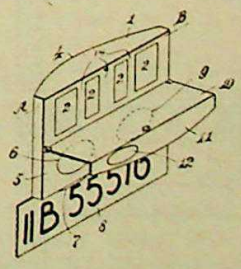
2,330,561

VEHICLE REAR SIGNAL

Friedrich Richard Dietrich, Munich, Germany; vested in the Alien Property Custodian

Original application June 3, 1939, Serial No. 277,288. Divided and this application September 11, 1940, Serial No. 356,273. In Germany June 20, 1938

2 Claims. (Cl. 177—327)



1. A rear light arrangement for a road vehicle providing means for estimating the varying distances of an observer from the rear end of the vehicle at relatively close range, said arrangement comprising a single source of light, a light impervious screen disposed on one side of said source of light, said screen being provided with at least two spaced apart windows of substantially rectangular shape, means preventing direct light from said source from falling through said windows, and a reflector disposed on the op-

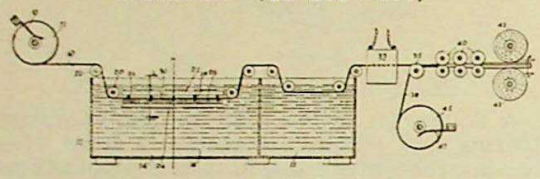
posite side of said source, said reflector being adapted and arranged to illuminate the areas of said windows uniformly with reflected light from said source.

2,330,562

ELECTROPOLISHING APPARATUS

Folsom E. Drummond and David E. Bench, Dayton, Ohio, assignors to The Himmel Brothers Company, Hamden, Conn., a corporation of Connecticut

Application December 20, 1940, Serial No. 370,972
3 Claims. (Cl. 204—207)



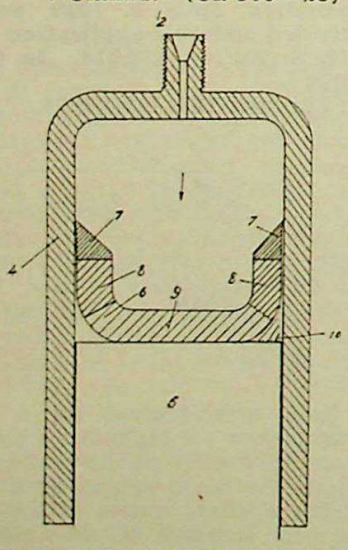
1. In an electrolytic polishing and forming apparatus for manufacturing a composite strip having a backing strip and a thin shell-like covering strip of electropolished metal of the class consisting of stainless steels, copper, brass, nickel, Monel, cobalt, zinc, tin, lead, aluminum, iron and the alloys of said metals in a continuous process, comprising the means for feeding a thin, shell-like covering strip through an electropolishing bath, means for supporting said shell-like covering strip comprising a plurality of electrically conductive brush bristle friction contact members, which members are located closely adjacent to each other as it is passed through said electropolishing path, said contact members forming a continuous support therefor and preventing bending or bowing of said strip during the electropolishing step.

2,330,563

PLASTIC COMPOSITION AND PACKING DEVICE

Jean Georges Louis Duval, Saint-Cyr-sur-Mer, France, assignor to Olaer Patent Company, New York, N. Y., a society of New York

Application May 8, 1941, Serial No. 392,589
In France February 5, 1940
7 Claims. (Cl. 309—23)



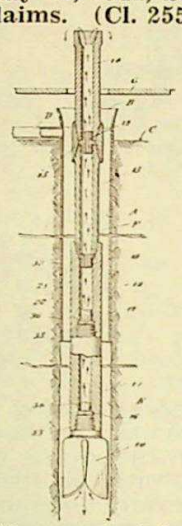
1. A vulcanized packing member comprising portions of different respective compositions and having different respective mechanical properties due to their different chemical composition and due to their combined vulcanization at least one portion comprising a plastic material and a substance of a lubricating nature incorporated therein, this material and said substance being so chosen that this portion has the property of continuously exuding this substance from its surface.

2,330,564

MUD EJECTION CONTROL

Clinton C. Dyer, Bakersfield, Calif.

Application May 12, 1941, Serial No. 393,103
6 Claims. (Cl. 255—28)



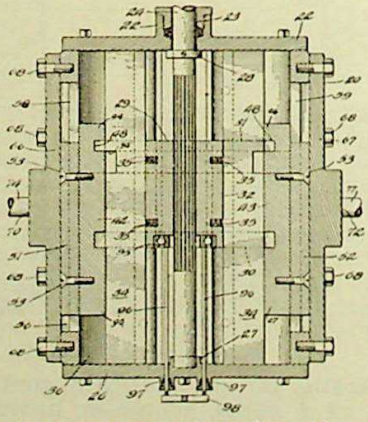
1. A mud ejection control for well drilling apparatus comprising a stem formed of a plurality of sections, and a dissolvable bean carried in the stem, said bean having a restricted bore to permit the gradual flow of liquid up through the stem as the stem is being lowered into position within the well, and to cause erosion of the bean and the washing out of the bean as fluid continues to flow through the sections of the stem.

2,330,565

POWER TRANSMISSION PUMP

Walter W. Eckart, Chicago, Ill.

Application October 30, 1939, Serial No. 302,003
7 Claims. (Cl. 103—120)



1. In a rotary pump or impeller, the combination of a cylinder, a rotor slidably mounted in the cylinder in axial alignment therewith and movable longitudinally of the cylinder, manually operable means for adjusting the rotor longitudinally of the cylinder, impeller blades radially mounted in the rotor and coacting with the cylinder, springs pressing the blades against the inner surface of the cylinder, said rotor having a reduced central portion with radial outwardly extending flanges at the ends thereof which fit

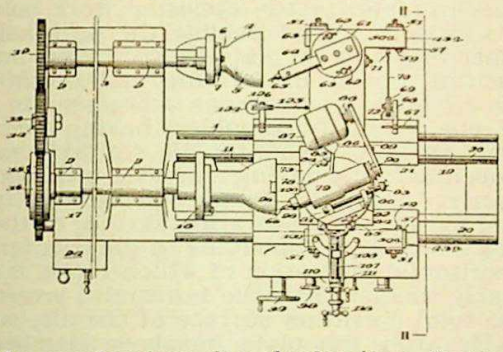
closely within the cylinder, blocks slidably mounted in the cylinder and slidable longitudinally thereof and projecting into the space between the flanges of the rotor and adapted to be moved longitudinally by the longitudinal movement of the rotor, said blocks serving to divide the space between the rotor and the cylinder into two oppositely disposed chambers, projections on the blocks forming cams which engage with the blades to depress the same and permit them to pass the blocks, a circumferential dividing wall fixed in the cylinder extending from one block to another and projecting into the space between the flanges of said rotor and fitting closely against the rotor and the blocks, inlet and outlet openings through the cylinder on each side of the respective blocks, valves mounted in the cylinder and secured to said blocks for opening and closing said openings, and means for turning said rotor.

2,330,566

PATTERN CONTROLLED MACHINE

Albert H. Edmonds and Harry M. Noble, Lancaster, Ohio

Application April 14, 1941, Serial No. 388,538
4 Claims. (Cl. 90—13.4)



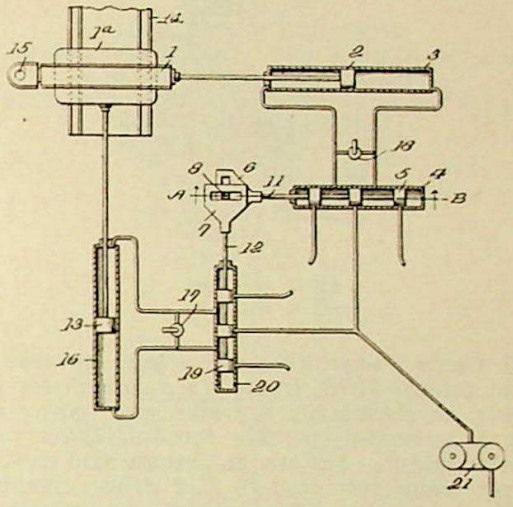
1. In mechanism for duplicating designs in inner surfaces of glass molds, a bed having longitudinal guides, a carriage supported for movement on said guides, means for imparting controlled movement to said carriage, a pair of shafts journaled on said bed for rotation about axes parallel to said guides, means for securing a blank mold to one shaft and a mold bearing the design to be duplicated to the other shaft, tool supporting means mounted on said carriage, said means comprising superposed bottom, intermediate and top plates, the bottom plate being rigidly secured to said carriage, cooperating means on the bottom and intermediate plates providing for guided movement of the intermediate plate on the bottom plate in a path at right angles to said guides, similar means between the upper and intermediate plates providing for guided movement of the upper plate on the intermediate plate in a path parallel to said guides, means for preventing undesired movement between said upper and intermediate plate, a stylus, a cutting tool, means carried by said upper plate for rotatably supporting said stylus and cutting tool in predetermined spaced relationship, said supporting means being adjustable to vary the angles of the axes of rotation of said stylus and cutting tool relative to that of said molds, a cable guide mounted on said carriage, cable means secured at one end to said intermediate plate and trained over said cable guide, and weight means fixed to the opposite end of said cable, said weight serving to move said intermediate and upper plates relative to said carriage whereby said stylus and cutting tool will be maintained in yieldable engagement with said molds.

2,330,567

FEED APPARATUS FOR PROFILE COPYING MACHINES

Hermann Ehrenberg, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian

Application May 3, 1938, Serial No. 205,684
In Germany May 11, 1937
2 Claims. (Cl. 90—13.5)



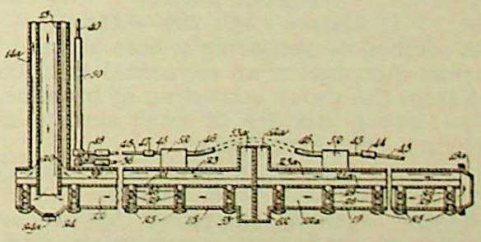
1. Apparatus for effecting by hydraulic means the feed of the cutter spindle of engraving and copy milling machines comprising in combination a plurality of working cylinders in which move pistons in positive communication with the cutter spindle, a plurality of control slides co-operating with said cylinders, each of said control slides co-acting with crossed slides and with a common slide block co-operating with said crossed slides, said slide block being adjustable by a hand lever movable in all directions.

2,330,568

DOUBLE PARALLEL SPRAY BAR

Henry R. Erickson, Minneapolis, Minn.

Application May 7, 1941, Serial No. 392,231
10 Claims. (Cl. 299—34)



1. In road spraying apparatus and the like, a relatively stationary spray bar section, a relatively movable spray bar section, said spray bar sections being longitudinally divided to provide inlet and outlet chambers therein, a pivot element connecting said spray bar sections, and said pivot element having a pair of fluid conduits therein, one of said conduits being in communication with the inlet chambers of said spray bar sections in all positions of said relatively movable section, and said pivot element having a fluid conduit therein in communication with said outlet chambers in all positions of said relatively movable spray bar section.

2,330,569

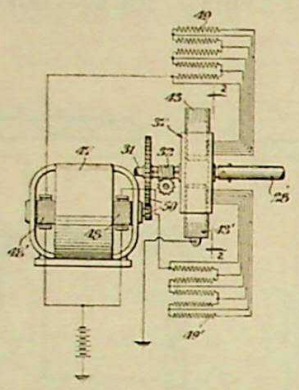
APPARATUS FOR CONTROLLING LAND, MARINE, AND AERIAL VEHICLES

Robert Esnault-Pelterie, Boulogne-Billancourt, France; vested in the Alien Property Custodian

Application May 27, 1939, Serial No. 276,250

In Switzerland May 30, 1938

10 Claims. (Cl. 172—239)



10. Control apparatus for a land, marine or aerial vehicle which comprises a control for the vehicle, an electrically operable servo-power device, a manually operable force-applying part, a driven member adapted to actuate said control, a gear train connected to said driven member, said gear train having a transmission ratio other than unity and being mounted upon a support so that said support rotates when a force is applied to said manually operable part, said driven member tending to resist movement of said manually movable part, and means for establishing and disestablishing electrical connection for operating said electrical servo-power device, said casing and said means having lost motion between them, and said means being responsive to movement of said support within the limits of lost motion of said support with respect to said means.

2,330,570

HALO ACETAL

Edward M. Filachione, Akron, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 31, 1940, Serial No. 348,841

11 Claims. (Cl. 260—615)

1. A method of preparing a halo acetal which comprises introducing an elemental halogen selected from the group consisting of bromine and chlorine into a mixture of vinyl acetate and a monohydric primary alcohol.

2,330,571

METHOD OF MAKING CHEWING GUM

Clarence H. Flint, Westport, Conn., assignor to Peter Paul, Inc., Naugatuck, Conn., a corporation of Delaware

No Drawing. Application November 6, 1941, Serial No. 418,065

2 Claims. (Cl. 99—135)

1. The method of making chewing gum containing activated carbon, which comprises as a separate operation thoroughly incorporating flavoring material comprising essential oils with the activated carbon, preparing a gum base from which any substantial quantity of sugar in solid form is excluded and maintaining the same at a temperature substantially in excess of body heat and at which said essential oils are volatile whereby said gum base is fluid, adding to said gum base the above mentioned activated carbon-flavoring ingredient mixture, thoroughly incorporating same while maintaining the mixture fluid whereby said flavoring material is substantially homogeneously incorporated with said gum base, and then adding the sugar in solid form.

2,330,572

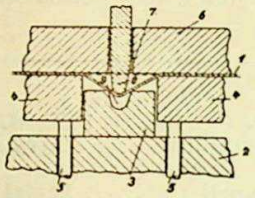
PRESS AND TOOL STRUCTURE FOR FORMING CAVITIES IN METAL PLATE

Walter Frey and Paul Krekel, Brandenburg-on-the-Havel, Germany; vested in the Alien Property Custodian

Application September 14, 1940, Serial No. 356,882

In Germany July 17, 1939

8 Claims. (Cl. 113—46)



7. In a press and tool structure for forming cavities in metal plates, opposing work holders, means for forcing and holding the work holders together with a metal plate between them during the entire process of forming and finishing a cavity so as to prevent edge movement in said plate, one of said work holders having a central opening therein, a counter-die shiftable within said opening, a die having a greater total operating surface than the counter-die and shiftable in said opening, the operating surface of the die having a recess corresponding to the counter-die, the horizontal projection of which recess is considerably smaller than the horizontal projection of the total operating surface of the die, means operable after the plate has been clamped by the work holder for effecting relative movement between the counter-die and the work holder having the center opening to cause the counter-die to prestretch the edge-secured-plate into said center opening to form a bulge therein which is of different dimensions than the ultimately desired cavity and for thereafter forcing the die toward the counter-die to finish the formation of the plate cavity between them, a stationary bolster opposing one of said work holders, a movable carriage opposing the other work holder, means for operating said parts including hydraulic equipment connected with the carriage in position for pushing said carriage against the work holder which it opposes, and hydraulic equipment connected with the carriage in position for pulling said carriage against the work holder which it opposes.

2,330,573

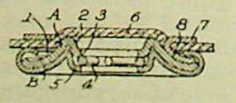
SNAP FASTENER SOCKET

Jean Emile François Gobin dit Daudé, Neuilly, Seine, France; vested in the Alien Property Custodian

Application October 8, 1941, Serial No. 414,192

In France March 1, 1941

9 Claims. (Cl. 24—218)



1. A snap fastener socket comprising substantially flat stud-engaging spring means, a first member having a curved annular riveting face

and a central portion in co-axial relation with said riveting face, said portion forming an abutment for said spring means against axial displacement in one direction, a second member forming a substantially flat circular bottom with an apertured central portion in co-axial relation with said riveting face, said bottom forming an abutment for said spring means against axial displacement in the reverse direction with respect to said first-named abutment, and said second named member having its outer edge turned around the outer edge of said first-named member close to but in spaced relation with respect to said riveting face so as to form an annular locking chamber.

2,330,574

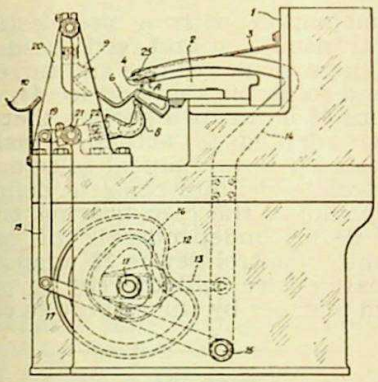
CIGAR MACHINE

Karl Erik Granstedt, Stockholm, Sweden, assignor to Aktiebolaget Formator, Stockholm, Sweden, a joint-stock company of Sweden

Application August 13, 1940, Serial No. 352,434

In Germany August 28, 1939

2 Claims. (Cl. 131—46)



1. In a cigar machine, a rolling table, a cigar rolling apron lying upon said table, means for periodically operating the apron to make part of said apron project beyond the front end of the rolling table, transfer means having a pair of cutting edges for cutting off the ends of the cigars, means for periodically moving said transfer means into a position close beneath said part of the apron, expeller members on said transfer means having substantial extent in the direction transversely of the apron and provided with rounded portions projecting upwardly beyond said cutting edges so as to prevent engagement between said cutting edges and said apron, and means for relatively moving said expeller members and said part of the apron to cause said members to sweep off a cigar sticking to the lower side of said part of the apron.

2,330,575

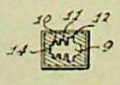
TOOL

Karl Richard Leopold Grauding, Stuttgart, Germany; vested in the Alien Property Custodian

Application May 3, 1941, Serial No. 391,781

In Germany April 10, 1940

5 Claims. (Cl. 1—50)



1. A tool for driving various types of fastening elements into a base, comprising means forming a channel for guiding the fastening elements, and a punching element adapted to drive said fastening elements through and out of said channel and into a base, said channel means consisting of a plurality of interconnected channels having parallel axes and adapted to accommodate fastening elements of different type or size, the driving end of said punching member having a cross-section corresponding to the total cross-sectional area of said channels, and there being at least one channel which flares slightly and gradually toward its ejecting end.

2,330,576

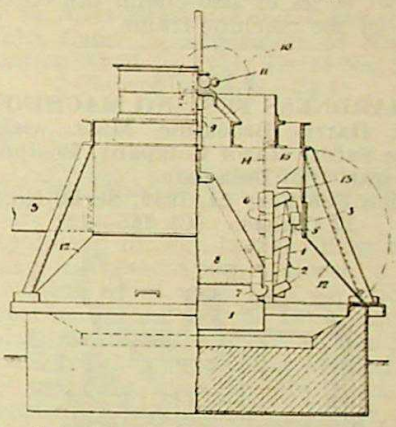
ALUMINUM FURNACE

Georg Hagerup-Larssen, New York, N. Y.; vested in the Alien Property Custodian

Application March 28, 1942, Serial No. 436,585

In Norway April 2, 1941

4 Claims. (Cl. 13—18)



1. In a furnace of the type described, an electrode mass which is hardened as it moves towards the heating zone of the furnace, successive horizontal rows of metal members in the sides of the electrode extending over a zone that runs from that portion of the electrode into which the contact members can be readily forced to a point shortly above the molten bath in the furnace, successive rows of such contact members being arranged in staggered relation to form vertical as well as horizontal rows, bus bars along the sides of the electrode positioned opposite said zone so that the contact members can be driven into the electrode above the bus bars and removed below them and flexible connections positioned between the respective vertical rows of contact members so arranged that they do not interfere with the insertion and removal of the contact members and so that they can be connected to contact members from either adjacent vertical row.

2,330,577

CENTERING DEVICE FOR THE CUTTING OF SHEET-METAL DISKS

Edvin Hampf, Goteborg, Sweden, assignor to Fabriksaktiebolaget Haldataxametern, Halmstad, Sweden, a company of Sweden

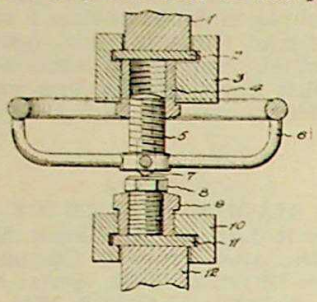
Application February 25, 1942, Serial No. 432,366

In Sweden January 13, 1941

3 Claims. (Cl. 164—71)

1. A centering device for cutting of disks in plate cutting machines comprising a centering pivot, a matrix for cooperating therewith, coaxial pins carrying said centering pivot and matrix respectively and threaded in opposite directions, fastening screws coaxial with said pins and into which said pins are threaded, said fastening screws being also threaded in opposite directions into corresponding parts of the machine frame, the threads of the pins and screws being so arranged that a unidirectional turning moment

transmitted from the plate to said pins and screws during the cutting operation will tend to cause an axial displacement of the pins towards



each other and of the fastening screws away from each other so as to also clamp the corresponding parts of the machine frame.

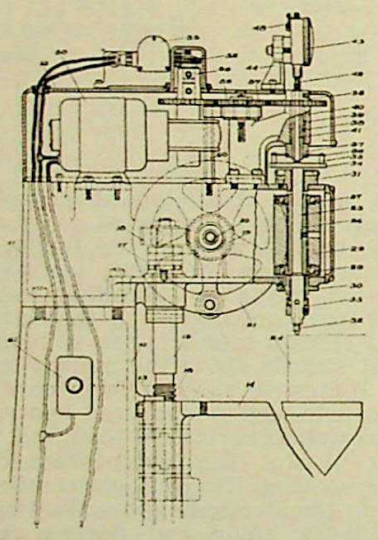
2,330,578

HARDNESS TESTING MACHINE

David H. Harris, Brookline, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Application February 21, 1940, Serial No. 320,075

12 Claims. (Cl. 265—12)



1. A hardness testing machine having a drilling spindle, a rotary driving member and a depth indicator all located in vertical alignment and operatively connected, manually controlled means movable transversely for interrupting the connection between the drilling spindle and the depth indicator, and a work support located beneath the drilling spindle.

2,330,579

PROCESS OF HYDRATING TURPENTINE AND LIKE MATTERS

Torsten Hasselstrom, Savannah, Ga., assignor to G and A Laboratories, Inc., Savannah, Ga., a corporation of Georgia

No Drawing. Application October 31, 1938

Serial No. 238,085

15 Claims. (Cl. 260—630)

1. A process of hydrating pinene-containing materials, which comprises mixing the material with dilute mineral acid and a substance selected from the group consisting of pseudopimaric acid sulfonate, sulfonated rosin, sulfonated rosin oils, sulfonated abietenes, and sulfonated resin acids, agitating, and withdrawing a semi-solid upper layer containing terpin hydrate.

14. The process of preparing terpin hydrate which comprises treating turpentine oil with dilute mineral acid selected from the group consisting of sulfuric, nitric and phosphoric acid in the presence of an emulsifying agent active in an acid medium.

2,330,580

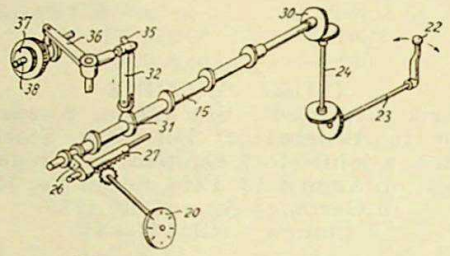
PRESELECTING GEAR CHANGE

Hans Hautsch, Meuselwitz, Thur, Germany; vested in the Alien Property Custodian

Application April 3, 1940, Serial No. 327,675

In Germany April 29, 1939

12 Claims. (Cl. 192—4)



1. In combination with a preselecting gear change for transmission and feed speeds on machine tools, in particular centre and turret lathes, a slidable and rotatable shaft device **41**, **42** and a series of cams **40** borne by a portion thereof, feed members **32** adapted to actuate slidable gear change wheels **37**, a mechanical selector **45** provided to associate definite cams to definite feed members by sliding the cam bearing portion of said shaft device independently of said feed members, and a control device **22** adapted to rotate the shaft device and thereby to operate a selected feed member by the respective cam.

2,330,581

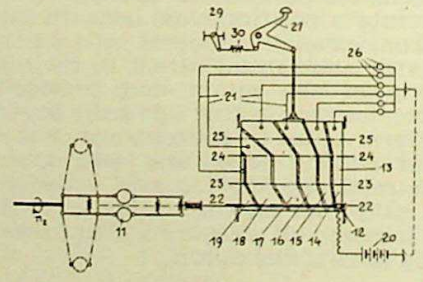
POWER TRANSMISSION

Karl Hefel, Innsbruck, Austria; vested in the Alien Property Custodian

Application November 27, 1937, Serial No. 176,941

In Austria December 1, 1936

1 Claim. (Cl. 74—472)



In a power transmission unit including an internal combustion engine, means controlling the supply of fuel to said engine, a driven shaft, and a transmission gear with variable transmission ratio interposed between said driven shaft and said engine, the combination of a member for selecting any desired effective power output of the engine, said member being operatively connected with said fuel control means so as to effect correlated movements of said output selecting member and said fuel control means, two elements displaceable along a common path and being controlled by said power output selecting member and by an output magnitude of said gear, respectively, means whereby the element controlled by the output selecting member is displaced along said common path in proportion to the logarithms of the engine speed as said speed

varies in accordance with the engine characteristic determining, over the whole range of power output, the most efficient values of fuel supply and engine speed, and means whereby the element controlled by an output magnitude of said gear is displaced along said common path in proportion to the logarithms of the speed of the driven shaft, said two elements cooperating with one another for adjustment of the transmission ratio of said gear to maintain the speed of the engine, irrespectively of the resistance encountered by the driven shaft, at the value corresponding to the selected power output in accordance with said engine characteristic.

2,330,582

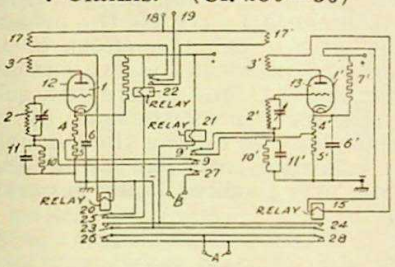
CIRCUIT ARRANGEMENT

Gerard Hepp, Eindhoven, Netherlands; vested in the Alien Property Custodian

Application July 8, 1941, Serial No. 401,532

In the Netherlands July 20, 1940

7 Claims. (Cl. 250—36)



1. A circuit arrangement for supplying electric oscillations to a load comprising, a circuit for normally supplying oscillations to the load including a discharge tube having a control electrode, a second circuit for supplying oscillations to the load upon failure of said first circuit and including a discharge tube having a control electrode, and means to connect said second circuit to the load upon failure of said first circuit, each of said circuits including means associated with the control electrode of the discharge tube to produce a sudden and permanent change in the operating condition of the circuit upon the occurrence of an at least transient variation in the operating voltage or electric constants of the discharge tube.

2,330,583

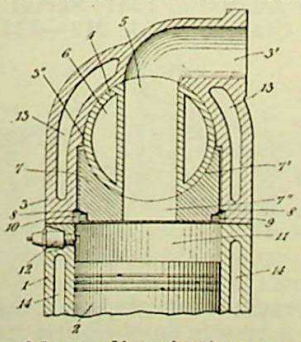
SEALING OF ROTARY VALVES

Christian Wilhelm Paul Heylandt, Rudolf Mewes and Albert Pomutz, Berlin-Britz, and Alfred Baer, Berlin-Schmargendorf, Germany; vested in the Alien Property Custodian

Application December 26, 1940, Serial No. 371,802

In Germany June 17, 1939

12 Claims. (Cl. 123—190)



1. In a movable sealing instrumentality for rotary valve structures of engines, including a rotary valve operating between fixed and movable working surfaces or seat portions provided respectively in the engine head, and a movable member operative therewithin; annular resilient sealing means connecting the head body with the movable member, and being constructed and arranged to not only seal the space between them, but to forcibly urge the movable member against the head, removable retaining means for fixedly holding the outer and inner peripheral edges of said sealing means against said head body and said movable member respectively, said retaining means and said movable member completely filling the cavity provided for that member in the head body, whereby a continuous unbroken sealing surface for the engine combustion chamber is assured.

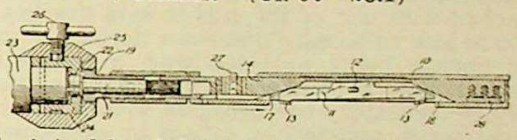
2,330,584

TOOLHEAD FOR RIFLING MACHINES

Frank O. Hoagland, West Hartford, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey

Application April 26, 1941, Serial No. 390,582

7 Claims. (Cl. 90—28.1)



1. A tool head for gun barrel rifling machines comprising in combination, a sleeve, a member having cutting edges at its opposite ends pivotally supported within said sleeve, a member axially slidable within said sleeve and having portions engaging and supporting an end of said pivotally supported member, and means to vary the movement of said slidable member.

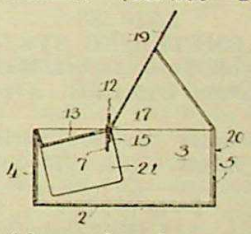
2,330,585

COMBINED SHIPPING AND DISPLAY CONTAINER

Moise S. Holstein and Timothy T. Morrow, Chicago, Ill., assignors to Oppenheimer Casing Co., Chicago, Ill., a corporation of Delaware

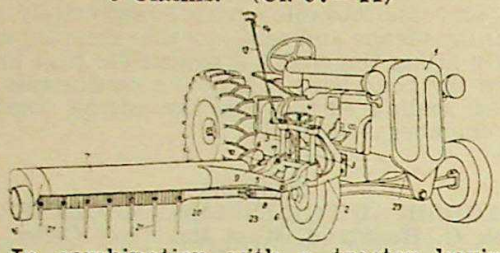
Application June 3, 1940, Serial No. 338,454

3 Claims. (Cl. 206—44)



1. In a combined shipping and display container especially adapted for the shipment and display of food or meat products or the like, a box, a lid connected to one edge of the box, a display tray connected to an opposite edge of and elevated above the bottom of the box, said lid being slit in such manner that when it is folded intermediate and transversely of its front and rear edges with its intermediate portion elevated, the portion defined by the slit provides an elevated background and its front edge a support for the tray, projections at the opposite sides of the lid adapted to extend beyond and seat upon the upper edges of the opposite sides of the box and intermediate the front and back sides thereof when the lid is in open, folded position, and coacting interlocking projections upon the abutting edges of the tray and front edge of the lid and combining with the projections at the opposite sides of the lid for retaining the lid in open elevated position and the tray in a position to display the products to be dispensed from the interior of the box, and a cut-out provided in the rear of the box providing access to the products in the interior thereof.

2,330,586
IMPLEMENT FOR WORKING THE SOIL
Ernst Hürlimann, Wil, Switzerland, assignor to Johann Hurlimann, Wil, Switzerland
Application April 19, 1941, Serial No. 389,451
In Switzerland April 20, 1940
9 Claims. (Cl. 97—44)

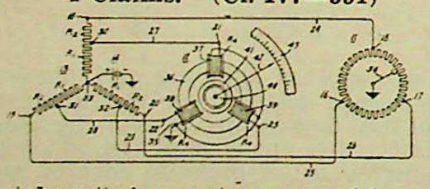


1. In combination with a tractor having a frame provided with a side member, a bracket attached to said side member, and a harrow extending laterally from said tractor and pivotally attached with one of its ends to said bracket so as to be able to be moved about a horizontal axis, said harrow being provided with a supporting roller at its other end and including a longitudinally reciprocatory bar provided with a series of spaced teeth, and means driven by said tractor and operatively connected with said bar for reciprocating the same.

2,330,587
FLOTATION REAGENT AND PROCESS
David Walker Jayne, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 6, 1940, Serial No. 364,495
14 Claims. (Cl. 209—166)

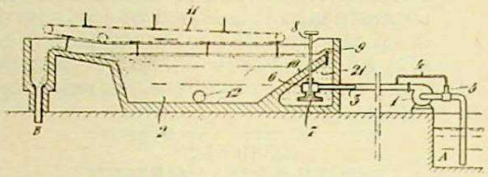
1. A composition of matter comprising an organic dithiophosphoric acid compound and from 6 to 10% of di-tolyl thiourea.

2,330,588
TELEMETERING SYSTEM
Richard G. Jewell, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application January 17, 1942, Serial No. 427,081
4 Claims. (Cl. 177—351)



1. A telemetering system comprising a transmitter, a receiver, a set of resistors and conductors joining the transmitter to the resistor set and the receiver, the transmitter comprising a toroidal resistor with three terminals connected thereto and a brush adapted to make contact with points along the resistors in accordance with the indication to be transmitted, the receiver comprising a plurality of current-conducting coils and a unidirectionally magnetized rotor rotatable in response to variations in current distribution in the receiver coils, said coils being star-connected to the terminals of the transmitter resistor and having a neutral point electrically connected to the transmitter brush, the said resistor set also being star-connected to the transmitter resistor terminals and having a neutral point adapted to be connected to one terminal of a current source, the other terminal of which is connected to the transmitter brush.

2,330,589
METHOD AND DEVICE FOR SEPARATING SOLID SUBSTANCES FROM SUSPENSIONS
Fredrik Juell, Oslo, Norway; vested in the Alien Property Custodian
Application December 31, 1940, Serial No. 372,654
In Sweden January 24, 1940
7 Claims. (Cl. 210—53)

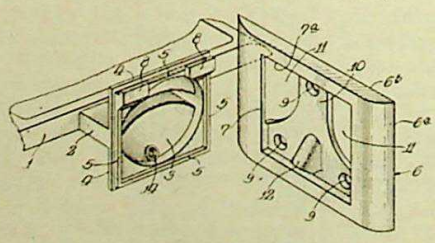


1. A method of separating a solid substance from a suspension thereof in a liquid comprising dissolving a gas in the suspension under pressure, flowing the suspension under pressure outwardly from a central point to abruptly diminish its velocity and momentarily reduce the pressure to below atmospheric under the effect of inertia of the suspension, passing the suspension into a relatively quiescent zone where the solid which has been released from suspension by the action of minute gas bubbles during the time of the vacuum then separates from the liquid, and removing the solid and clarified liquid separately from said zone.

2,330,590
DUST IRON CORE
Kurt Kaschke, Berlin-Neukolln, Germany; vested in the Alien Property Custodian
Application May 18, 1940, Serial No. 336,018
In Germany May 19, 1939
2 Claims. (Cl. 175—21)

1. A high-frequency ferromagnetic core consisting of a pressure-formed body consisting essentially of discrete particles of ferromagnetic powder and of silicon powder in substantially equal amounts by weight, said particles being held together solely by means of a thermo-setting insulating binder.

2,330,591
FIXTURE AND MOUNTING BRACKET THEREFOR
William A. Kendall, Hinsdale, Ill.
Application August 5, 1941, Serial No. 405,507
2 Claims. (Cl. 248—223)



1. A wall bracket comprising a mounting plate formed with a recess in its outer face, the back wall of said recess having holes for mounting screws, and an arm having a base formed to fit in said recess resting on the lower side thereof, the upper edge of the recess being undercut and said base having a portion which extends upwardly into sliding engagement with under-cut portion of

the mounting plate when the base is fitted into the recess, said base having also a marginal flange overlapping the edge of the recess together with a securing screw extending through said base into the mounting plate.

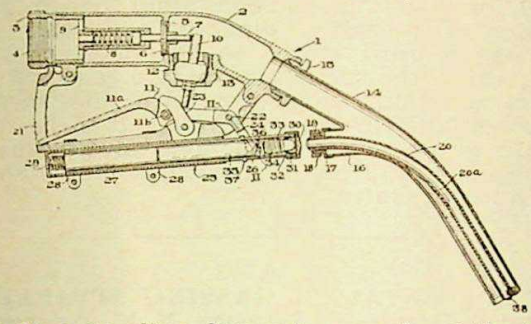
2,330,592

NOZZLE ILLUMINATING MEANS

John F. Kendrick, Columbus, Ohio, assignor to International-Stacey Corporation, Columbus, Ohio, a corporation of Ohio

Application October 28, 1941, Serial No. 416,836

3 Claims. (Cl. 240—2)



2. In a gasoline dispensing nozzle of the type having a liquid control valve and an actuator therefor, means for directing a beam of light in the direction of liquid undergoing discharge from said nozzle comprising, a housing supported by said nozzle, a lamp mounted in said housing, a transparent wall forming a part of said housing and arranged adjacent to said lamp, means controlled by the valve actuator for energizing said lamp, and a solid light-conducting means of plastic composition extending from a point adjacent to said transparent wall into said nozzle and longitudinally thereof to the outlet end.

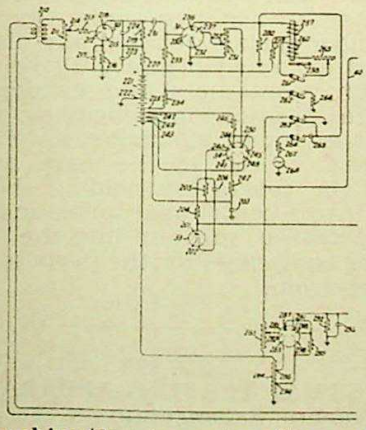
2,330,593

HIGH FREQUENCY COMMUNICATION SYSTEM

Edwin W. Kenefake, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 11, 1942, Serial No. 450,499

10 Claims. (Cl. 179—1)



1. The combination in a signalling system of a signal transmission channel, a signal transmitter and signal receiver at each of two spaced points along said channel, means responsive to signals in one of said signal transmitters for rendering inoperative the associated signal receiver and for subsequently connecting said signal transmitter to said channel in a time sufficiently short that no appreciable part of said signal is lost, means associated with the other of said signal receivers for detecting the presence of a signal in said channel and for rendering the associated signal transmitter inoperative and subsequently causing said signal receiver to reproduce said signal after a period sufficiently short that no appreciable part of the beginning of said signal is lost and sufficiently long that disturbances in said system are substantially attenuated before said receiver reproduces said signal.

2,330,594

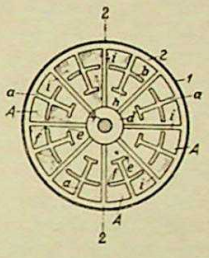
DRY RECTIFIER

Erich Kipphan and Berta Siebert, Nuremberg, Germany; vested in the Alien Property Custodian

Application June 12, 1940, Serial No. 340,052

In Germany January 10, 1940

9 Claims. (Cl. 175—366)



7. In the manufacture of rectifier discs according to claim 1, the method that consists in applying a pattern plate to the outer surface of said semi-conductor layer, such pattern plate comprising bars and a disc-shaped center portion, in then spraying metal against said layer and pattern plate, this center portion being effective to leave a central zone of the said semi-conductor layer free from the metal applied to it by spraying, and finally in producing on this layer a central metal ring by an additional spraying operation.

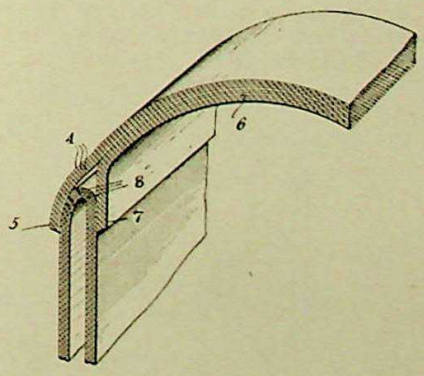
2,330,595

LAMINATED BODY

Erwin Komenda, Stuttgart-Korntal, Germany; vested in the Alien Property Custodian

Original application May 13, 1939, Serial No. 273,397. Divided and this application May 21, 1941, Serial No. 394,450. In Germany May 14, 1938

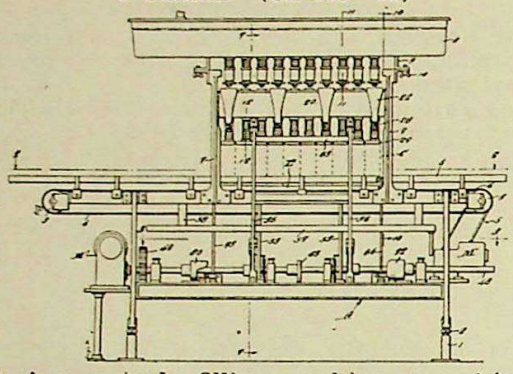
1 Claim. (Cl. 296—137)



In a vehicle, the combination of a roof composed of a plurality of layers of material, adhesively related, and having an edge providing coacting jaws formed by splitting two sets of said layers from one another, thereby forming a throat, and a side wall composed of a plurality of layers of material adhesively related, and folded upon itself to produce parallel members con-

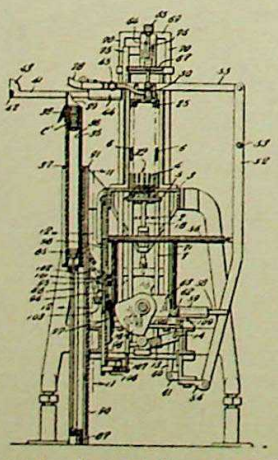
nected by a semi-circular bend, said side wall being so related to said roof that said semi-circular bend is intruded into said throat so that the said jaws engage the parallel members of the side wall, the jaws and members being adhesively related.

2,330,596
FILLING MACHINE
Irwin Kotcher, Brooklyn, N. Y.
Application July 23, 1943, Serial No. 495,956
5 Claims. (Cl. 226—95)



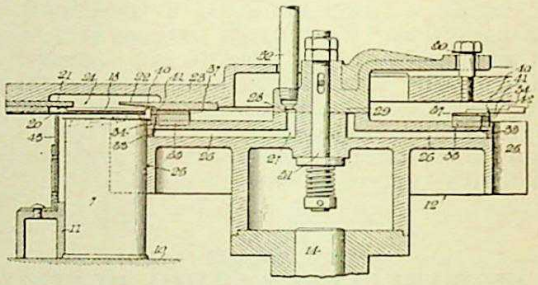
1. A receptacle filling machine comprising a frame, a reservoir supported at the top of the frame, vertically movable measuring chambers, a rotary shaft journaled in the frame, means actuated by the shaft for moving the chambers to a position where they will be filled with liquid from the reservoir and then move the chambers to a non-filling position, valve means depending from the chambers, a vertically movable elevator supported by the frame, a conveyor for moving receptacles over the elevator, vertically movable uprights connected at their upper ends to the elevator, levers extending in opposite directions and having their outer ends engaging lower end parts of the uprights, a roller carrying member engaging the inner ends of the levers, a cam on the shaft engaging the roller of said member for actuating the levers to cause the uprights to move the elevator vertically, said elevator when raised moving receptacles from the conveyor upwardly against the valve means for opening said valve means to permit liquid to flow from the chambers into the receptacles.

2,330,597
RECEPTACLE CAPPING APPARATUS
Irwin Kotcher, Brooklyn, N. Y.
Application July 23, 1943, Serial No. 495,957
8 Claims. (Cl. 226—92)



1. In a receptacle capping machine, a supporting frame, a conveyor for bringing the receptacles into capping position, a stop member supported for vertical movement in the frame and when raised preventing movement of the receptacles by the conveyor, beyond capping position, an elevator for raising the receptacles off the conveyor, a member in the upper portion of the frame for receiving the upper ends of the receptacles when raised by the elevator, a horizontally movable carriage, cap supporting means, plungers for forcing the caps into the receptacles, a shaft journaled in the frame, cams on the shaft, means actuated by the cams for operating the elevator, the stop member, the carriage and the plungers, suction means carried by the carriage for picking up the caps from the cap supporting means and holding the caps while the carriage is being moved to depositing position after which the suction means are rendered inactive, a conduit connected with the suction means of the carriage and adapted to be connected with a source of suction, valve means in the conduit, and one of the cams of the shaft actuating the valve means.

2,330,598
FILLED CONTAINER GASSING APPARATUS
Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application January 31, 1941, Serial No. 376,913
10 Claims. (Cl. 226—68)

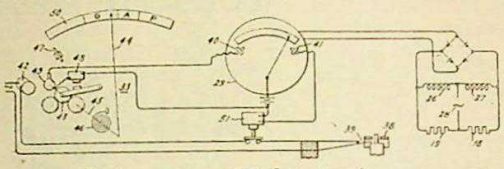


1. In apparatus of the character described, means including a rotatable turret having provision for engaging and simultaneously conveying filled containers and covers therefor in an arcuate path with the covers disposed above and aligned with the containers, a cover supporting plate, means stationarily supporting said plate with its under surface horizontally disposed over and spaced a limited distance above the tops of the traveling containers and its upper surface disposed in position for engaging under and forming at least partial support for the traveling covers, means carried by the turret and engageable with the covers for holding them against displacement by centrifugal force, and means for directing a gaseous medium into the head spaces of the filled containers for the purpose of displacing air therefrom.

2,330,599
THERMAL TESTING APPARATUS
Hans P. Kuehni, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application October 17, 1941, Serial No. 415,434. Divided and this application May 1, 1943, Serial No. 485,354
5 Claims. (Cl. 73—51)

1. Thermal conductivity testing apparatus comprising a heat storage mass, means for heating said mass and maintaining it at a substantially constant predetermined temperature, a

metallic contact member thermally associated with said heat storage mass having relatively small heat storage capacity as compared to that of the heat storage mass and through which heat from said mass is released for testing purposes resulting in an appreciable temperature



difference between said heat storage mass and contact member, and means responsive to the temperature difference between said heat storage mass and contact member for obtaining a measurement of the rate of heat transfer from said contact member.

2,330,600

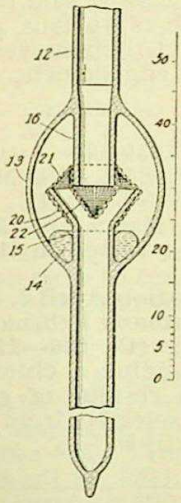
DISCHARGE TUBE

Minne Kuipers, Eindhoven, Netherlands; vested in the Alien Property Custodian

Application May 29, 1941, Serial No. 395,888

In the Netherlands June 25, 1940

6 Claims. (Cl. 250—27.5)



1. A discharge tube comprising an envelope, electrodes and a vapor filling within the envelope, an exhausting member connected to the envelope, said member comprising a chamber portion and two tubular portions extending into said chamber, one of said tubular portions forming a path of low resistance to vapors between the space within the envelope and the space within the chamber, the second tubular portion serving to introduce a vapor-producing material into said chamber, and a supply of the vapor-producing material within said chamber at one side of one of said extending portions.

2,330,601

ARC WELDING LOW-CARBON STEEL WITH A CARBON ELECTRODE

Bernard M. Larsen, Elizabeth, N. J., assignor to United States Steel Corporation of Delaware, a corporation of Delaware

No Drawing. Application April 22, 1942, Serial No. 440,101

2 Claims. (Cl. 219—10)

1. A method of arc welding low-carbon steel with a carbon electrode, characterized by covering the welding zone with an oxidizing slag, and working the arc therethrough to prevent the steel from permanently acquiring carbon from the electrode.

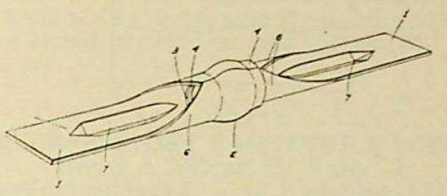
2,330,602

METHOD OF MAKING INSULATED BRACES

Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation of California

Original application August 23, 1939, Serial No. 291,552. Divided and this application August 1, 1941, Serial No. 405,036

2 Claims. (Cl. 29—150)



1. That method of forming an insulated brace from a pair of initially flat bendable strips, and a sheet of insulation material of substantially the same width; comprising the steps of disposing the strips in longitudinal alinement with only adjacent end portions overlapping, and with said sheet of insulation material engaged between said overlapping end portions, thereafter simultaneously bending said overlapped end portions of the strips and intermediate sheet of insulation material transversely thereof into a telescopic assembly of tubular configuration wherein the end portion of one of said strips surrounds the end portion of the other strip and said sheet in clamping engagement, and radially deforming said telescopic assembly throughout only a part of its length and to an extent to alter the diameter of said part so as to thereafter prevent relative axial separating movement of said strips.

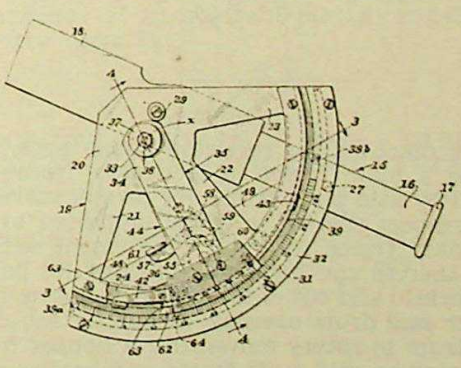
2,330,603

ANGLE MEASURING INSTRUMENT

Paul A. McNally, Washington, D. C.

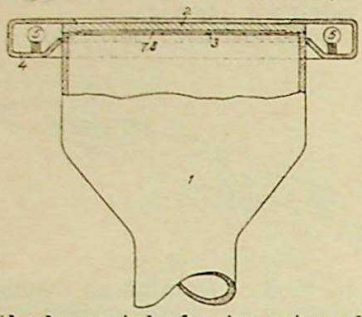
Application August 5, 1942, Serial No. 453,735

11 Claims. (Cl. 33—70)



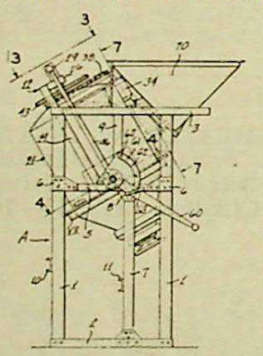
1. A measuring device for vertical angles, comprising sighting means, an arcuate scale bar in connection with said sighting means, the axis of said scale bar being perpendicular to an axial plane of said sighting means, the bar being in a vertical plane and extending in both directions beyond a vertical line intersecting the bar axis when the sighting means is in sighting position, a pointer movable along said bar; and means for locating said pointer for a reading with reference to said bar, including an arcuate runway coaxial with said bar and substantially included in the angle which includes said bar, a ball adapted during sighting to assume a position in said runway in which the center of the ball lies on the vertical radius of the runway, and an abutment portion on the pointer adapted to abut the thus positioned ball.

2,330,604
CATHODE RAY TUBE
Maximilian Messner, Berlin, Germany; vested in the Alien Property Custodian
Application October 10, 1941, Serial No. 414,411
In Germany April 26, 1940
2 Claims. (Cl. 250—164)



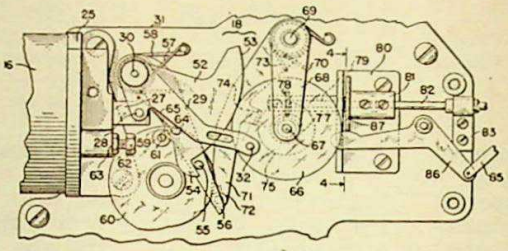
1. A cathode ray tube having a translucent end wall, a scale on the inner side of said wall, a fluorescent screen at said end wall, and illuminating means to illuminate said end wall exclusively in a direction laterally thereof.

2,330,605
MACHINE FOR WASHING AND STEAMING EDIBLE NUTS
Leo J. Meyer, San Antonio, Tex., assignor to The Champion Pecan Machine Company, San Antonio, Tex., a corporation of Texas
Application April 27, 1942, Serial No. 440,638
7 Claims. (Cl. 146—197)



1. A machine for servicing edible nuts, comprising a main frame, a secondary frame supported by said main frame for pivotal movement with respect thereto, a drum supported by said secondary frame for rotary movement with respect thereto and having an opening for passage of nuts into and out of said drum, a closure member for said drum opening, means for subjecting said drum to rotary movement, a hopper fixedly supported by said main frame and having a discharge opening through which nuts may pass from said hopper, said hopper opening being located immediately adjacent to the path of movement traveled by the drum opening in response to pivotal movement of said secondary frame, a closure member for said discharge opening of said hopper, said drum being movable to a position where a portion thereof engages the closure member of the discharge opening of said hopper and moves same to its open position and where the opening of said drum coincides with the discharge opening of said hopper for passage of nuts from said hopper into said drum, and said drum being movable to a different position where nuts may be discharged from said drum through the opening thereof, and conducting means for discharging into said drum nut servicing medium.

2,330,606
INTEGRATING MECHANISM
Coleman B. Moore, Carroll Park, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 4, 1940, Serial No. 312,384
4 Claims. (Cl. 235—61)



1. In a measuring instrument a shaft, a lever pivoted on said shaft and biased in one direction, a support also pivoted on said shaft and biased in the same direction, connected members rotatable on said support about an axis parallel to that of said shaft, one being in the path of movement of said lever and engaged thereby, means to periodically move said lever into and out of engagement with the member engaged thereby and thereby move said members against said bias, and means to rotate said members various amounts while they are at one end of their movement, and said one member is out of engagement with said lever.

2,330,607
ELECTROLYTE PASTE AND METHOD OF MAKING SAME
Richard Müller and Harry Lee, Radebeul, near Dresden, Germany; vested in the Alien Property Custodian
No Drawing. Application April 2, 1940, Serial No. 327,476. In Germany February 6, 1939
4 Claims. (Cl. 136—157)

3. A dry cell containing a chloride electrolyte gelatinized by lignin residue of saccharification of vegetable matter selected from the class consisting of wood and straw.

2,330,608
PREPARING STOCK FOR COATING AND ELECTROPLATING
John S. Nachtman, Beaver, Pa.
No Drawing. Application January 25, 1939, Serial No. 252,781
5 Claims. (Cl. 204—34)

1. In a method of making coated ferrous metal material having a ferrous metal base and a uniformly adhering, perfectly bonded, smooth coating of tin, adapted for being formed or deep drawn without peeling, cracking or separation of the coating from the ferrous metal base, from commercially cold rolled ferrous metal material having foreign material on and rolled into the surface thereof and having physical and chemical surface conditions of such lack of uniformity that a uniformly adherent, perfectly bonded, smooth coating of tin which will not peel, crack or separate therefrom when formed or deep drawn, normally cannot be applied thereto; the steps in the order named of forming on the surface of said commercially cold rolled ferrous metal material a uniform, thin, film-like, adherent coating of a compound of said ferrous metal from said ferrous metal material of the class consisting of iron oxide, iron sulphide, and iron phosphate; then subjecting the film-like coated ferrous metal material to the action of an aqueous solution of an acid of the group consisting of hydrochloric and

sulphuric acid to dissolve said film-like coating; then wet mechanically cleaning the same to remove said film-like coating completely therefrom; the film-like coating serving as a vehicle, the dissolution and removal of which is accompanied by removal of foreign material on and rolled into the surface of said commercially cold rolled ferrous metal stock, thereby exposing a clean, smooth, bright, uniform ferrous metal surface, free from overlying or imbedded foreign material, and of nascent or coating receptive condition, and having the mechanical and crystalline characteristics previously imparted thereto by cold rolling; and then immediately applying to said coating receptive surface of said ferrous metal material a coating of tin before exposing the coating receptive surface to the atmosphere.

2,330,609

PROCEDURE FOR BRIGHTENING TIN COATINGS

John S. Nachtman, Beaver, Pa.

No Drawing. Application December 30, 1939, Serial No. 311,928

11 Claims. (Cl. 204—36)

10. A process for brightening an electro-deposited stannous metal coating on a metal strip, said stannous metal coating having a substantially dull, film or matte-like surface appearance produced by the electroplating operation; including the steps of immersing the strip in a hot bath of an aqueous solution of an acid at least 2.5% by weight of an acid having neutral or reducing properties when used in hot solutions maintained at a temperature of from 170° F. to 210° F. for up to 15 seconds to remove said film, rinsing the coating to remove the bath solution, then heating the strip to melt the coating and then cooling the strip to solidify the coating and provide a mirror-like surface appearance.

2,330,610

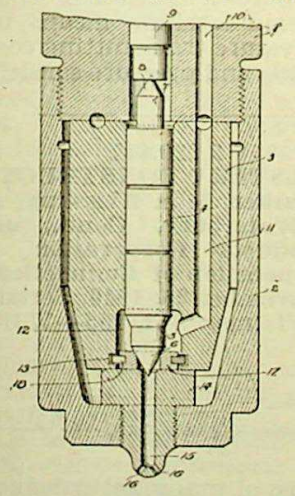
NEEDLE VALVE AND SEAT THEREFOR

Otto Natter, Hofingen, Leonberg, Germany; vested in the Alien Property Custodian

Application April 29, 1941, Serial No. 391,001

In Germany July 21, 1939

4 Claims. (Cl. 251—27)



1. A valve comprising a casing having a chamber therein, the wall defining said chamber having a groove therein, a movable valve head having a tapered tip and mounted for reciprocation in said chamber, a plate having a valve seat formed therein and having a groove extending around the periphery thereof, said plate being mounted for movement within said chamber in a plane normal to the axis of reciprocation of said valve head and detachable means extending between and into said grooves, for mounting said plate within said chamber, said detachable means maintaining said plate in a position such that the valve seat therein is in substantial axial alignment with the tapered tip of the valve head and permitting said plate to move in a plane normal to the axis of reciprocation of said valve head to bring the valve seat therein into accurate axial alignment with the tapered tip as said tip moves toward closed position on said valve seat.

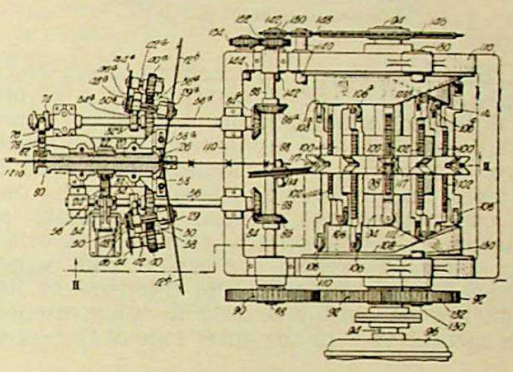
2,330,611

REVERSE TWIST BARBWIRE MACHINE

Henry A. Nelson, De Kalb, Ill.

Application May 8, 1942, Serial No. 442,245

22 Claims. (Cl. 140—65)



1. In a machine for making barbwire, means for advancing a plurality of strands in juxtaposed relation, mechanism for automatically applying barbs to at least one of said strands at spaced intervals, and means coordinated with said mechanism for simultaneously twisting spaced portions of said juxtaposed strands in opposite directions so as to produce a balanced barbwire product in which the tendency of one portion to twist in one direction is negatived by the tendency of an adjacent portion to twist in the reverse direction.

2,330,612

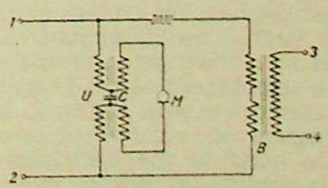
SUBSCRIBER'S STATION FOR CARRIER FREQUENCY COMMUNICATION SYSTEMS

Herbert Nitz, Berlin, Germany; vested in the Alien Property Custodian

Application November 27, 1940, Serial No. 367,415

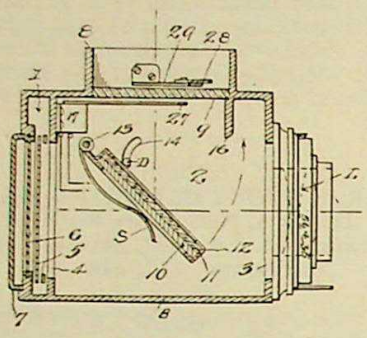
In Germany December 8, 1939

3 Claims. (Cl. 179—81)



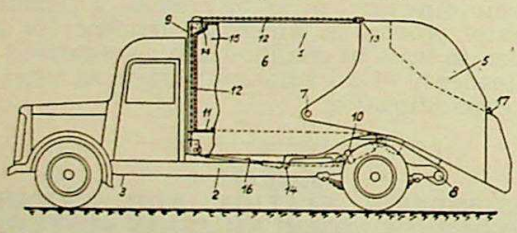
1. In a telephone system, a subscriber's line and a subscriber's station circuit comprising a microphone and a transformer for coupling said microphone to said subscriber's line, said transformer having split primary and secondary windings, connections between one end of each half of said split primary winding and the said subscriber's line, connections between one end of each half of said split secondary winding and said microphone, and a condenser connected between the other ends of the two halves of the said primary winding and the other ends of the two halves of the said secondary winding.

2,330,613
LIGHT METER FOR CAMERAS
Karl Nüchterlein, Dresden, Germany; vested in the Alien Property Custodian
Application January 23, 1940, Serial No. 315,263
In Germany October 15, 1935
4 Claims. (Cl. 88—23)



1. The combination in a reflex camera having a light chamber and a focusing screen forming a wall thereof, a movable focusing mirror located in said chamber, and a photoelectric cell mounted on the mirror, of a magnet mounted in the chamber, an oscillatible armature for the magnet, connections between said cell, magnet, and armature, a needle on the armature associated with the inner face of the screen and variably displaced in accord with the intensity of light impinging on said cell, and a complementary scale associated with the outer face of the screen.

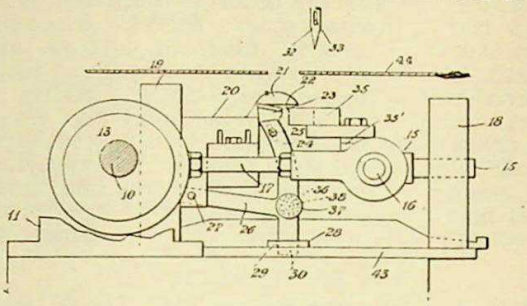
2,330,614
REFUSE COLLECTING VEHICLE
Jacob Ochsner, Zurich, Switzerland
Application July 10, 1941, Serial No. 401,825
In France September 27, 1940
2 Claims. (Cl. 298—23)



1. In a vehicle of the character described, the combination of a chassis, a vehicle body pivotally secured to the rear end of the chassis, a hood for closing the rear end of the body and pivoted to said body forward of the pivotal axis of the body, a hoist between the chassis and the bottom of the body, and a flexible member being at one end secured at a fixed point of the chassis forward of the attachment of the hoist to the body and being connected with the hood between the side walls thereof rearward of the pivotal attachment of the hood to the body and means for permanently guiding the flexible member in front of the front wall of the body.

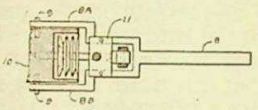
2,330,615
TUFTING MACHINE
Joseph Vernon Parker, La Grange, Ga., assignor to Callaway Mills, La Grange, Ga., a corporation of Georgia
Application September 28, 1939, Serial No. 296,954
6 Claims. (Cl. 112—79)

1. In a multi-needle tufting machine of the type having a plurality of needles, a looper movable toward and from each of the needles, a support for the loopers, a shearing blade for each looper pivoted to the looper support, means for actuating said loopers and blades, means for pressing each blade against its looper, the improvement which comprises a movable member for adjusting the position of each of said press-



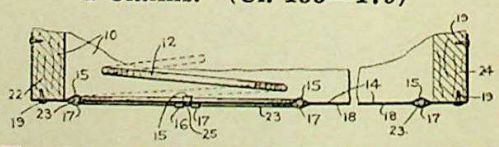
ing means and a manually controlled device for moving said member whereby the cutting adaptability of all of said blades may be simultaneously controlled.

2,330,616
FLUID DISPENSING MEANS
Roy T. Parker, Cleveland Heights, Ohio
Application June 18, 1940, Serial No. 341,090
11 Claims. (Cl. 226—120)



1. Apparatus for filling a substantially air tight container having an opening through which liquid may be admitted, in combination, a closure member adapted to substantially seal said opening and provided with a nozzle through which the liquid to be discharged into the container passes, a normally closed valve in said nozzle, manually operable latching means for holding said valve in the open position, a vent pipe in said nozzle having an opening to the atmosphere for releasing the air from the container displaced by the liquid discharged therein, means responsive to the level of liquid in said container for closing said vent and thereby causing the pressure in said container to increase, pressure sensitive means for releasing said latching means to close said valve, and a pressure transmitting connection between said nozzle and pressure sensitive means.

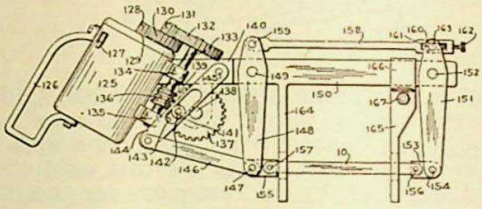
2,330,617
UPHOLSTERY CONSTRUCTION
Rutledge A. Parker, Max Kiessling, and Max J. Kiessling, Waterbury, Conn., assignors to Parker Products Corporation, Waterbury, Conn., a corporation of Connecticut
Application November 25, 1940, Serial No. 367,022
4 Claims. (Cl. 155—179)



1. The process of manufacturing an upholstery construction which comprises: securing to an open frame of an article of furniture a pair of crossed narrow metallic strips, one of which has a plurality of groups of stretchable upstanding and depressed loop sections, inserting the lowermost convolution of a coil spring within a pair of said groups of loop sections for supporting said spring upon said strips, and frictionally

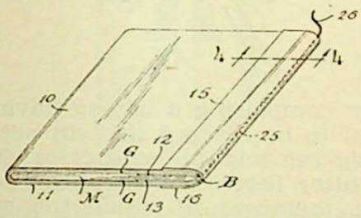
locking said spring to said strips by permanently stretching said strip having the loop sections beyond the elastic limit of the metal thereof to cause said loops to flatten and tightly embrace the lowermost convolution of said spring.

2,330,618
PORTABLE ELECTRIC HACK SAW
Edwin W. Plumb, Morris, Conn.
Application July 14, 1941, Serial No. 402,278
2 Claims. (Cl. 29—73)



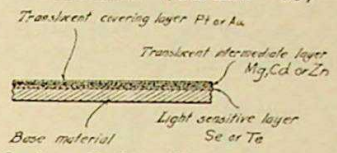
1. In a portable power-driven hacksaw adapted to be carried in the hands of an operator, a frame having an electric motor rigidly mounted thereon, a pair of rocker arms pivoted at spaced points on said frame, said rocker arms being adjustably connected together at their upper ends by a horizontal link, the lower ends of said rocker arms being connected by a hacksaw blade, and means for drivingly connecting the lower end of one of said rocker arms to said motor for reciprocating said hacksaw blade, said frame having an elongated portion extending beyond the pivot points of said rocker arms to support said motor.

2,330,619
COMBINED MAILING WRAPPER AND COVER FOR MAGAZINES AND THE LIKE
Harry C. Pomeranz, New York, N. Y.
Application March 14, 1942, Serial No. 434,735
2 Claims. (Cl. 229—87)



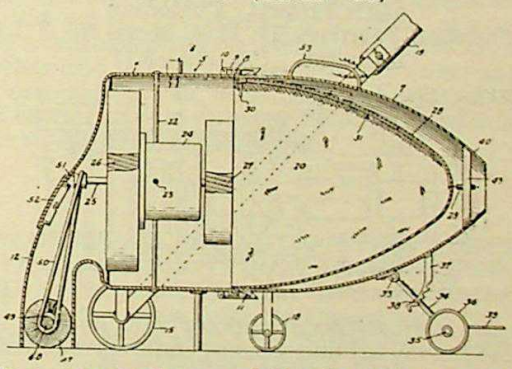
1. A combined cover and mailing wrapper for a magazine book and the like of a readily foldable material, said wrapper comprising: (*a*) a main section foldable about a magazine along a line transverse and intermediate of its width to embrace the bound edge of the magazine and to overlie and protect the respective cover members thereof; (*b*) flap portions extending from the opposite side edges of said main section and adapted to be folded around the edges of the respective cover members into engagement with the inner surfaces thereof; and (*c*) a third flap member carried by said wrapper and extending laterally beyond the main section to overlie one of said flap portions to an extent so that when the wrapper is in position to embrace the back and cover members of a magazine with the two first mentioned flap portions in the aforementioned enfolding relation to the cover members of the magazine, the third flap can be caused to extend from one cover member and be secured to the other cover member to thereby complete a closed mailing wrapper for the magazine, whereby upon destruction of the wrapper closure effected by this third flap, the wrapper can then remain to serve as a cover for the magazine.

2,330,620
PHOTOVOLTAIC CELL AND METHOD OF MANUFACTURING THE SAME
Ernst Presser, Berlin-Dahlem, Germany; vested in the Alien Property Custodian
Application November 30, 1936, Serial No. 113,477
In Germany August 16, 1934
2 Claims. (Cl. 136—89)



2. The photovoltaic cell comprising a conducting base plate, a layer of light-sensitive material consisting substantially of selenium in crystalline form upon said base plate, a translucent homogeneous covering layer upon the selenium consisting substantially of gold, and a translucent intermediate layer consisting substantially of magnesium in finely divided form upon and in intimate molecular contact with the surface of the selenium.

2,330,621
SUCTION CLEANER
Arthur Radke, Cleveland, Ohio
Application September 19, 1941, Serial No. 411,561
1 Claim. (Cl. 15—16)

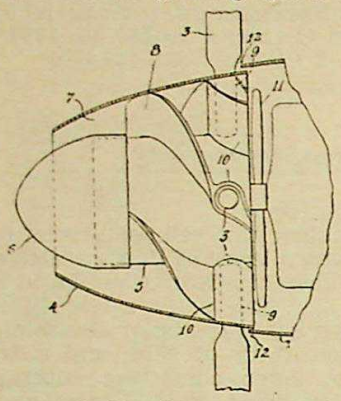


In a vacuum cleaner of the character described, a hollow casing composed of a pair of complemental sections including a motor section and a bag section each having interengaging means adapted for detachably securing the sections in rigidly assembled relation, a motor in the motor section having front and rear fans attached thereto at opposite ends of the motor for sucking air into the motor section and discharging the same into the bag section, and a support for the motor comprising horizontal and vertical rods extending transversely of the motor section and securing the motor in spaced relation to the walls of said motor section.

2,330,622
GUIDING AND CONTROLLING DEVICE FOR COWLINGS
Reinhard Ramshorn, Munich, Grafelfing, Germany; vested in the Alien Property Custodian
Application March 27, 1940, Serial No. 326,140
In Germany April 1, 1939
5 Claims. (Cl. 123—171)

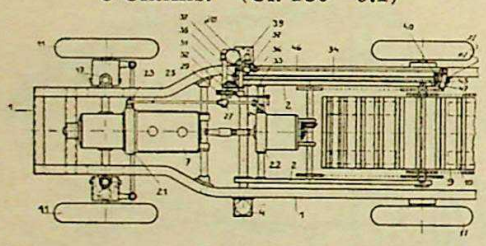
1. In a cowling for engine-driven aircraft, the combination of a first stationary cowling section adapted to surround the engine proper, a propeller adapted to be driven by the engine, and a second cowling section rotatable with said propeller and positioned forwardly of said first cowling section, said second cowling section including

a stream-lined outer wall open at both ends, surrounding and extending forwardly of the propeller butt ends, an inner cylindrical wall coaxial with and spaced from said outer wall to form an annular air-guiding space between the



two walls, and baffles in said annular space interconnecting the two walls, said baffles being so shaped as to assist in directing the oncoming air rearwardly through said annular space to said engine.

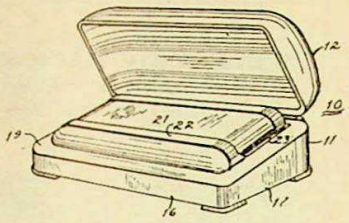
2,330,623
CROSS-COUNTRY MOTOR VEHICLE
Jakob Rantasa, Vienna, Germany; vested in the Alien Property Custodian
Application February 27, 1940, Serial No. 321,122
8 Claims. (Cl. 180—9.1)



1. In a cross-country motor vehicle, a vehicle frame having ground wheels, endless track frame members swingingly mounted in the vehicle frame, an endless track mounted in the endless track frame member, a motor, a connection for driving a part of the ground wheels from the motor, a connection for driving the endless track from the motor, manually operable means for reversely controlling said connections between the motor and ground wheels and the motor and endless track, whereby when the motor is connected to one such part it is free of connection with the other, an element to be connected to the endless track frame for raising the endless track to a position free of the ground surface, a manually operable element for releasing said raising means from the endless track frame to permit said frame to move by gravity to position the endless track in contact with the ground, and a connection leading from the manually operable means for selectively governing the motor drive, said connection positioning the raising means for the endless track frame in position to engage said lowered endless track frame, and raise said frame to free the endless track from the ground surface.

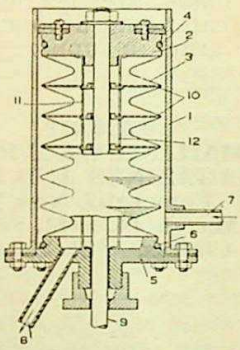
2,330,624
RECEPTACLE
Merrill L. Rathbun, Salamanca, N. Y.
Application February 28, 1940, Serial No. 321,291
3 Claims. (Cl. 206—75)

1. A receptacle for an article of merchandise comprising body and cover elements, the meeting edges of said elements being inclined upwardly from front to rear of said receptacle, a base wall in said body element, said wall being disposed in the plane of the meeting edges of said elements, an article support disposed above and



parallel to the plane of said base wall, said support being rigidly joined along one edge to said base wall and spaced from said base wall in all other respects whereby to permit encirclement of said support by a fastener for an article mounted thereon.

2,330,625
FILTER
Wilhelm Benjamin Reppmann, Oss, Netherlands; vested in the Alien Property Custodian
Application May 1, 1940, Serial No. 332,822
In the Netherlands May 15, 1939
5 Claims. (Cl. 210—177)

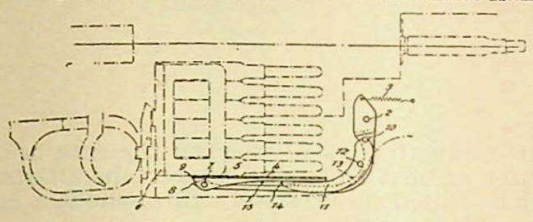


1. A filter comprising a casing having an inlet for material to be filtered and an outlet for the filtrate, a zig-zag foldable cylindrical filter-fabric carrier of filter fabric for the filter sediment in said casing, members to which the ends of the carrier are secured in a liquid tight manner, said members being movable towards each other for pressing out the carrier and the sediment deposited thereon, disc-shaped perforated plates arranged in the interior and in the folds of the carrier, and flexible means for spacing and guiding said plates, the inlet being connected with the space between the carrier and the casing and the outlet being connected with the space in the cylindrical carrier.

2,330,626
ELEVATOR FOR REPETITION AND AUTOMATIC FIREARMS
Gino Revelli, Rome, Italy; vested in the Alien Property Custodian
Application October 6, 1939, Serial No. 298,323
In Italy October 31, 1938
2 Claims. (Cl. 42—6)

1. A cartridge feeding mechanism for firearms including an upwardly extending magazine adapted to receive a row of cartridges, a lifting plate disposed beneath the cartridges in the magazine, a lever of approximately L-shape provided with a cam surface thereon and having its rear end pivotally connected to the plate adjacent

the rear end of the said plate and its forward end pivotally connected to the fire-arm, an arcuate shaped lever having its front end pivotally connected to the fire-arm and its rear end slidably engaging the lifting plate, a projection extending from said second named lever for slidable engagement with said cam surface and means for turning said first named lever about its pivotal mounting to raise the rear end of said first named



lever, and by means of said cam surface and projection to turn said arcuate shaped lever about its mounting and raise the rear end thereof, said cam surface being so formed as to maintain raising contact with said projection to cause the rear end of said levers to travel together and to maintain the lifting plate parallel to the fire-arm throughout the entire range of lifting movement.

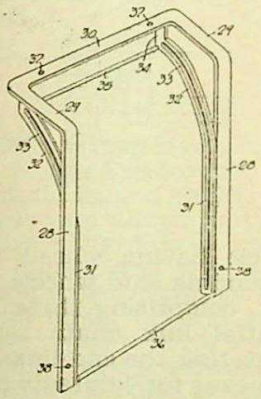
2,330,627

EXTENSIBLE TRAY FOR UPHOLSTERED FURNITURE

Kenneth J. Reynolds, La Porte, Ind.

Application October 26, 1940, Serial No. 362,995

2 Claims. (Cl. 155—128)



1. A frame unit for guiding a slidable tray within a hollow arm rest of a chair, comprising a pair of complementary parallel elongated bars each having an elongated slot therein including a lower straight vertical slot portion and upper curved slot portion, reinforcing bars extending perpendicularly outwardly from said slotted bars and secured to the opposite end portions thereof, and rigid cross bars interconnecting the ends of said reinforcing bars, said reinforcing bars and one cross bar having apertures therein to receive securing means for mounting said frame unit within said arm rest.

2,330,628

MAGNETIC LENSES FOR ELECTRON-OPTICAL APPARATUS

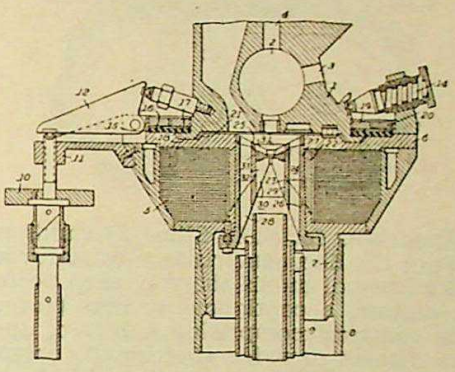
Ernst Ruska, Berlin-Spandau, Germany; vested in the Alien Property Custodian

Application July 30, 1940, Serial No. 348,492

In Germany July 14, 1939

7 Claims. (Cl. 250—161)

1. A magnetic lens for electron-optical apparatus, in particular electron microscopes, comprising an outer lens structure substantially of annular shape having a relatively large axial bore, said outer lens structure including an energizing coil and a body of magnetic material having two parts of magnetically opposite polarity bordering said bore and spaced axially from each other, an intermediate axially apertured carrier seated in said bore and having two axially spaced magnetic sections and an intermediate non-magnetic section interconnecting said magnetic sections, said two magnetic sections being in engagement with said two parts respectively, and a central pole shoe structure seated in the aper-



ture of said carrier and being composed of two axially spaced pole shoes and an intermediate non-magnetic member, said two pole shoes being in engagement with said two sections respectively, said outer lens structure, carrier, and pole shoe structure being detachable relative to one another and having conical seat surfaces engaging one another to secure in centered position said carrier to said outer structure and said pole shoe structure to said carrier.

2,330,629

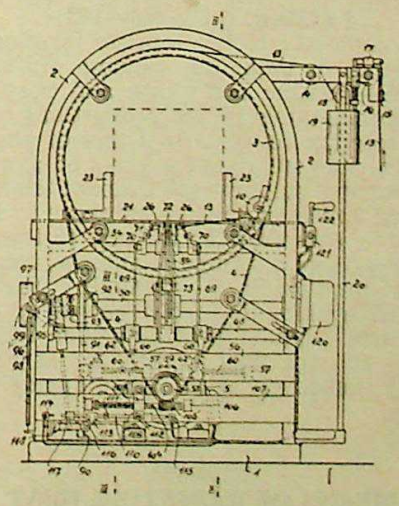
MACHINE FOR THE AUTOMATIC PRODUCTION OF WIRE TYINGS FOR PACKETS

Gottfried Schmidt, Cologne, Germany; vested in the Alien Property Custodian

Application June 5, 1939, Serial No. 277,561

In Germany April 6, 1939

17 Claims. (Cl. 100—31)



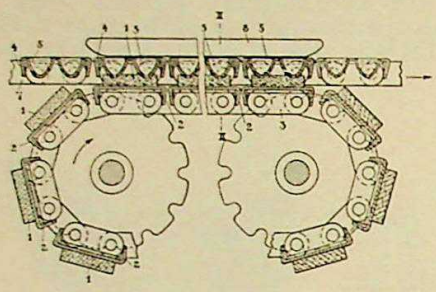
13. A wire applying machine comprising a winding ring for the wire, a reversible motor for rotating the winding ring in one direction for a complete winding operation and in the opposite direction for the following complete winding operation, means for holding the ends of a wound wire, and means for tightening the wire as it is held by the holding means.

2,330,630

PRODUCTION OF CANDIES

Richard Schönfeld and Hermann Fiedler, Dresden, Germany; vested in the Alien Property Custodian

Application January 8, 1941, Serial No. 373,588
In Germany January 29, 1940
3 Claims. (Cl. 107—1)



1. Apparatus for mold filling in candy manufacture or the like, comprising a conveyor having a multiplicity of molds thereon, each perforated at its bottom, a contiguous endless perforation sealing conveyor comprising a pair of sprocket wheels, chains movable thereabout, comprising a multiplicity of links, each of said links having a resilient pad thereon, said conveyors being driven at equal linear speed, thereby bringing the pads successively into sealing engagement with the perforations of the successive molds as they pass over one sprocket wheel, and maintaining them in such engagement during their traverse in one direction to the other sprocket wheel, and successively withdrawing the pad from the molds as they pass over the latter sprocket wheel.

2,330,631

MANUFACTURING SULPHUROUS ANHYDRIDE, ALUMINA, AND CEMENTS USING SULPHATES OF CALCIUM

Jean Charles Séailles, Paris, France; vested in the Alien Property Custodian

No Drawing. Application November 21, 1939, Serial No. 305,481. In Luxemburg November 24, 1938
4 Claims. (Cl. 106—103)

1. The method which comprises forming an intimate mixture including calcium sulfate, clay containing alumina and silica, and titanium dioxide approximately in the proportions of 1 to 2 mols of calcium sulphate to 1 mol of alumina, 2 mols of calcium sulphate for 1 mol of silica, 1 to 2 mols of calcium sulphate for 1 mol of titanium dioxide, and 2 mols of calcium sulphate to 1 mol of ferric oxide, calcining the mixture to form a calcium silicate and a soluble aluminate, cooling the resulting product, and extracting the cooled product with water to dissolve out the aluminate, the calcium sulphate providing lime during the calcining and the lime so provided serving substantially exclusively as the alkali during the said calcining.

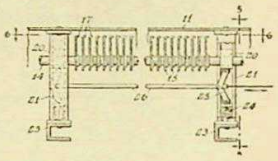
2,330,632

MEANS OF RADIATING HEAT

Roger Adolphe Leonard Seligman, Paris, France; vested in the Alien Property Custodian

Application October 12, 1940. Serial No. 360,939
7 Claims. (Cl. 257—125)

4. In an airplane, the combination of a metallic plate having one face adapted to be in contact with the air-stream, a liquid conduit closely juxtaposed to the opposite face of said plate, a metallic heat-conducting path for conducting heat from said conduit to said metal plate for dissipation by the latter to the air-stream, and means under control of the pilot to vary progressively throughout a substantial range the minimum cross-sectional area of said metallic



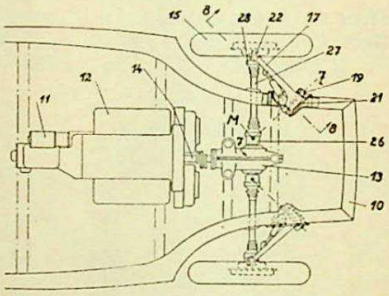
heat-conducting path whereby the rate of conduction of heat from said pipe to the air-stream may be raised progressively throughout a range of conduction-rates.

2,330,633

WHEEL SUSPENSION, ESPECIALLY FOR MOTOR CARS

Wilhelm Seyerle, Waldenbronn, near Esslingen-on-the-Neckar, Germany; vested in the Alien Property Custodian

Application July 8, 1936, Serial No. 89,515
In Germany July 11, 1935
25 Claims. (Cl. 180—73)



7. In a vehicle having wheels and a frame, means for suspending said wheels independently of one another, comprising three link members forming a spatial link chain serially jointed, means for connecting the end links of said chain to said frame, means for jointedly connecting the middle link of said chain with said end link members, the connection of the link members with one another and of the end links with the frame being so designed that the parts connected with one another are turnable relatively to one another on axes intersecting substantially in a common point which does not lie at infinity, means on one of said links for carrying one of said wheels, comprising a wheel pivot the axis of which extends through the common point of intersection, a driving shaft co-axial with said pivot and rigidly connected to the same and a driving joint for driving said shaft positioned in the common point of intersection.

2,330,634

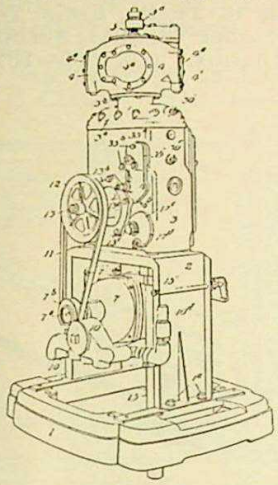
GASOLINE PUMP

William E. Shoemaker, Freeport, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application December 19, 1940, Serial No. 370,886
2 Claims. (Cl. 221—95)

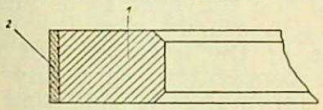
1. A gasoline dispensing apparatus adapted to be installed in a gasoline filling station or the like, comprising a base plate, an outer framework and casing supported by the base plate, and

a pump mechanism including a pump, an air separator and a meter support supported from



the base plate and spaced from the outer framework and casing.

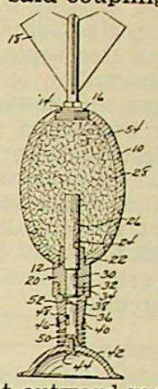
2,330,635
MACHINE PART SUBJECTED TO SLIDING STRESS
Friedrich Wilhelm Siebel, Burscheid, Germany; vested in the Alien Property Custodian
Application April 1, 1940, Serial No. 327,373
In Germany April 8, 1939
3 Claims. (Cl. 117—127)



1. As an article of manufacture, a first metallic machine part adapted to work in sliding contact with a cooperating second metallic machine part, said first part having added to its surface a running-in relatively hard and coherent coating comprising a binder and a quantity of mildly abrasive polishing material, said coating being softer than the metal of said parts and being adapted to wear down to a highly polished finish relatively rapidly during running-in while polishing the engaged surface of said second part, particles of said coating which become abraded during running-in being adapted in part to become re-embedded in the coating and in part to be removed from said parts until eventually all the material of the coating is removed.

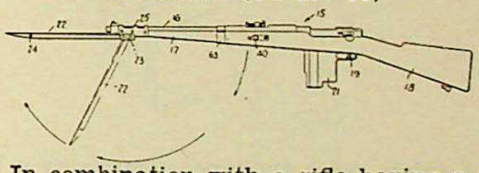
2,330,636
AERIAL BOMB
Howard Smith, Bryn Mawr, Pa.
Application December 22, 1941, Serial No. 424,042
2 Claims. (Cl. 102—2)

1. An aerial bomb comprising a shell having a multiplicity of lines of fracture formed therein, said shell being provided with first and second threaded openings in opposite ends thereof, a plug threaded into the first opening and provided with a stabilizing vane, a fitting having a first shank threaded into the second opening, said shank being provided with an axial bore, an explosive material in stick form having one end secured in said axial bore, said explosive material extending inside said shell, shrapnel filling said shell and surrounding said explosive material, said fitting being provided with a second threaded shank and having a second axial bore communicating with said first axial bore, a percussion cap in said second bore, a coupling member threadedly connected with said second shank and engaging the percussion cap to hold the latter in position, said coupling member being provided with a bore, a firing pin slidable in said bore, pin means acting on said coupling member and said



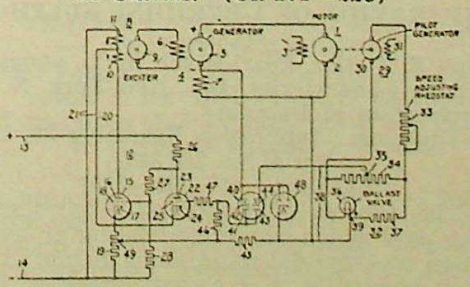
firing pin to limit outward movement of the firing pin, a spring acting on the coupling member and the firing pin for urging the latter outwardly to hold the firing pin spaced from the percussion cap, and a target-engaging cup attached to said firing pin and opening in the direction of the target.

2,330,637
RETRACTABLE BAYONET
Cosimo D. Spagnolo, Brooklyn, N. Y.
Application July 13, 1942, Serial No. 450,658
2 Claims. (Cl. 42—86)



1. In combination with a rifle having a muzzle and a stock, a clamping ring about said muzzle, a cover plate, means securing said cover plate to said clamping ring, a bayonet, means swingingly securing said bayonet to said cover plate, means terminating within said cover plate normally urging said bayonet into extended position, locking means on said cover plate to releasably retain said bayonet in extended position, manual means to release said locking means to retract said bayonet, said bayonet provided with an opening near the point thereof, and retaining means in the stock of said rifle entering said opening to lock said bayonet in inoperative position.

2,330,638
ELECTRIC CONTROL CIRCUITS
Jerry L. Stratton, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 24, 1941, Serial No. 380,227
13 Claims. (Cl. 171—223)



1. In combination, a dynamo-electric machine

comprising an armature and a field winding, an exciter for variably energizing said field winding and comprising a pair of control windings arranged to produce opposing magnetomotive forces, a source of direct current, means for variably energizing said control windings comprising a resistance connected across one of said control windings and an electronic discharge device, having a grid, connected in series relation with said resistance across said source, the other control winding being connected across said electronic discharge device, means for varying the potential of said grid in accordance with a predetermined controlling influence, and means responsive to an electrical condition derived from said armature circuit for controlling the potential impressed on said grid to limit the energization of said armature circuit.

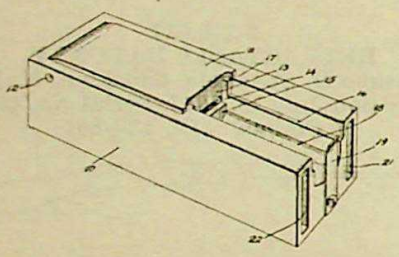
2,330,639

SAFETY RAZOR APPLIANCE

Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Application June 4, 1943, Serial No. 489,618

10 Claims. (Cl. 30—90)



1. A safety razor appliance comprising a body having a blade-receptacle therein, razor supporting means adjacent to the receptacle, and manually-operated means for kicking a blade out of a razor presented on such supporting means and into said blade-receptacle.

2,330,640

CATALYSIS

John W. Teter, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 19, 1941, Serial No. 389,415

7 Claims. (Cl. 196—52)

1. Process for cracking petroleum oil to produce motor fuel having high anti-knock properties comprising intimately contacting the oil to be cracked while at a cracking temperature with a metal oxide catalyst in the form of an aerogel.

2,330,641

PREPARATION OF 4-PYRIDINE SULPHONIC ACID

Adolph E. Tiesler, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 20, 1940, Serial No. 366 381

7 Claims. (Cl. 260—290)

5. The process of preparing 4-pyridine sulphonic acid which comprises heating an aqueous solution of 4-pyridyl pyridinium dichloride with sodium bisulphite in a closed container at the reaction temperature.

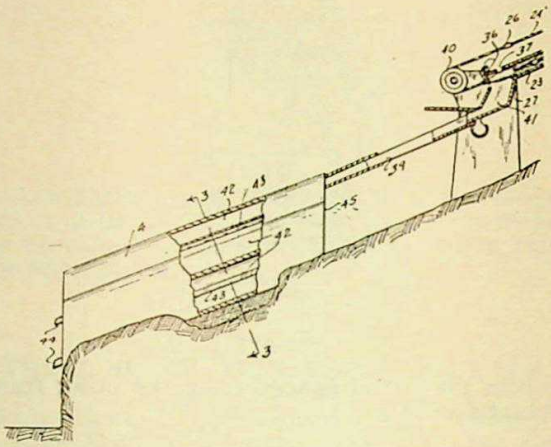
2,330,642

GRAIN CONVEYER AND STORAGE TANK

William R. Tuttle, Elma, Wash.

Application October 28, 1941, Serial No. 416,897

7 Claims. (Cl. 214—16)



2. A grain conveyer and separator including an inclined conveyer for gravital flow of the grain, a loading platform at the upper end of the conveyer, a plurality of receiving bins at the lower end of the conveyer, an element movable longitudinally of the conveyer under the influence of the moving grain, a stop at the lower end of the conveyer to be engaged by the element to temporarily stop the flow of grain, and a chute at the lower end of the conveyer movable for cooperation with any selected bin, and means for manually releasing the stop to permit the moving grain to be delivered to the selected bin.

2,330,643

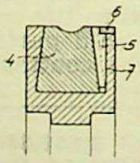
LINING FOR ROPE- AND DRIVING PULLEYS

Emil Uffelmann, Hamm, Germany; vested in the Alien Property Custodian

Application April 7, 1941, Serial No. 387,323

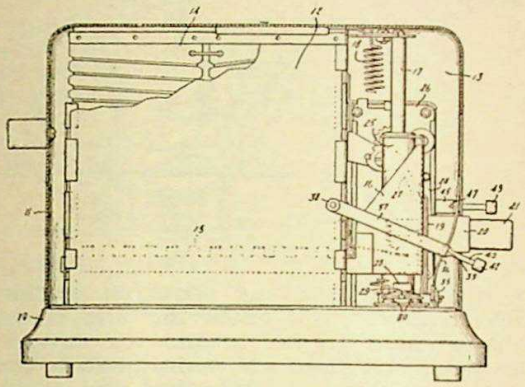
In Germany March 6, 1940

4 Claims. (Cl. 74—230.5)



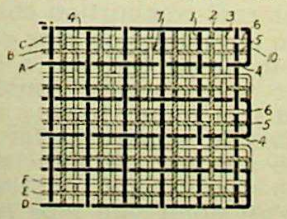
2. A drive pulley with grooved rim and diagonally subdivided lining blocks circumferentially disposed in the groove and secured therein, said lining blocks being of metal and of a width somewhat greater than the width of the groove when adjacent ends of their subdivisions lie in the same planes, whereby when the blocks are in operative position in the groove lateral joint gaps are formed between halves of consecutive blocks, all said blocks being operative drive blocks, the lining blocks being secured in the pulley groove by means including an end block closing the gap between the first and the last inserted lining block, and a member for holding the end block in said groove, said member engaging a recess in a side wall of the groove.

2,330,644
TOASTER
Harry W. Uhlrig, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application September 26, 1940, Serial No. 358,488
4 Claims. (Cl. 219—19)



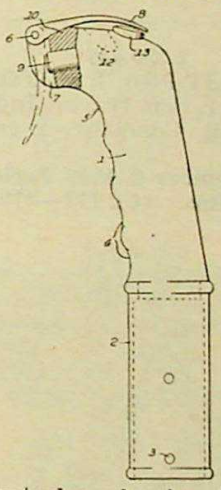
1. A toaster comprising a toasting chamber, heating means in said chamber for performing a toasting function, a slice-holder in said chamber, a vertically movable carriage attached to said holder for moving said holder between a toasting and non-toasting position, means biasing said holder and said carriage to their non-toasting position, a catch member, a latching bar secured to said carriage and adapted to engage said catch member so as to latch said holder and carriage in their toasting position, switch means for controlling said heating means, means for actuating said switch means to the circuit closing position when said carriage is moved to its toasting position, timing means for measuring the toasting interval, means actuated by said timing means for moving said catch member so that said holder and carriage are moved by said biasing means to the non-toasting position at the end of the toasting interval, a secondary catch member adapted to be engaged by said latching bar to limit the upward movement of said carriage after the operation of said first mentioned catch member, means for supporting said secondary catch member so that it can be moved to the latching or non-latching position, manual means for actuating said supporting means so that it may be moved to either its latching or non-latching position at the will of the operator, and means for moving said latching bar so as to release it from said secondary catch member to permit said slice-holder and carriage to move to their non-toasting position.

2,330,645
METHOD OF MAKING FABRIC
Frederick B. Voegeli, Mansfield, Mass., assignor to William H. Bannon, Mansfield, Mass.
Application September 26, 1939, Serial No. 296,547
2 Claims. (Cl. 139—408)



1. A process of manufacturing a cloth having a large bulk per unit of weight which comprises the steps of weaving a plurality of plies from light cotton warp and weft threads of about normal twist, said plies having common selvages and being interwoven only at spaced intervals and the warp threads thereof being of substantially the same length, each ply having a gray cloth construction of open mesh weave and sufficiently loose that in a subsequent contracting operation the individual threads thereof may loop out of the plane of each ply, subsequently subjecting the cloth to a water treatment while untensioned to wet the threads thereof to release their natural tendency to loop to cause them individually to loop out of the planes of the respective plies and contract the fabric, drying the cloth thus treated in an untensioned condition, tentering the dry cloth to approximately full gray dimensions and then releasing the tentering action whereby the cloth is given greater bulk and elasticity.

2,330,646
RELEASING DEVICE
Albert Voigt, Berlin, and Gottfried Melster, Bernau, near Berlin, Germany; vested in the Alien Property Custodian
Application May 13, 1940, Serial No. 334,754
In Germany August 20, 1936
4 Claims. (Cl. 89—27)

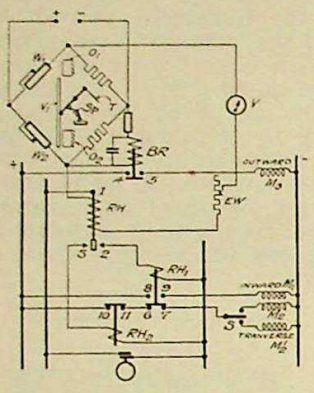


4. A fire control mechanism for guns comprising a control stick having a handle, a notch in said handle, a trigger being oscillatably mounted in a pivot situated above said notch, a cam on said trigger and a spring pressed ball cooperating with said cam, a release button slidably arranged in the notch of said handle, a press button being spaced from said release button and slidably arranged in said handle so that it is covered by said trigger when said trigger is rotated into its inoperative position, and a spring bearing against said handle and cooperating with said trigger for normally spacing said trigger from said release button when said trigger is in its operative position.

2,330,647
TRACER CONTROL FOR MATERIAL WORKING MACHINES
Paul Volk, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian
Application May 15, 1940, Serial No. 335,289
In Germany December 19, 1938
10 Claims. (Cl. 90—13.5)

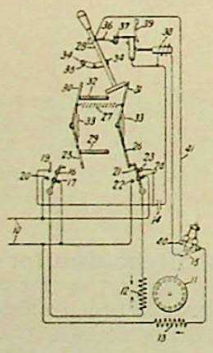
1. In a tracer control device for tool machines or the like, the combination of a tracer bar disposed to follow a given template, with a nozzle bolometer relay for controlling the tool movement of the tool machine, said bolometer having

a nozzle control vane for controlling the temperature of the bolometer wires, said vane being operatively connected with said tracer bar to partake in the movements of the latter for controlling the bolometer wire temperatures in ac-



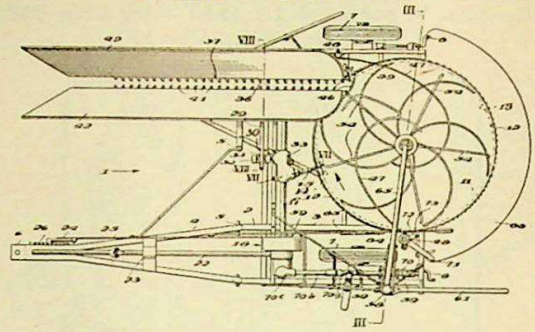
cordance with said tracer movements, a polarized relay controlled by the bolometer for adjusting the tool movements of the tool machine, and means for varying the potential for energizing said polarized relay.

2,330,648
REVERSING SPLIT PHASE MOTOR CONTROL
Wilbur W. Warner, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application September 4, 1942, Serial No. 457,289
5 Claims. (Cl. 172—279)



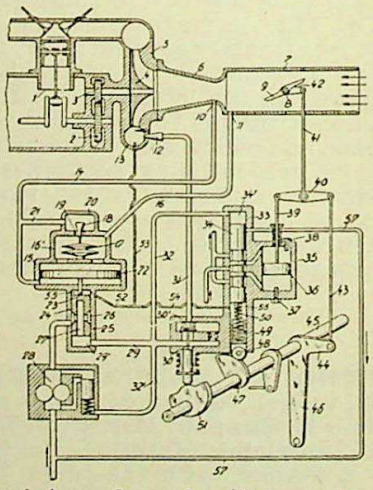
1. A reversible split phase motor control comprising a split phase motor having a pair of angularly displaced energizing windings, a speed responsive switch therefor having starting and running contacts, a source of single phase supply, a snap action reversing switch mechanism having motor reversing positions, contacts associated therewith, connections including such contacts through which the motor windings may be energized for one direction of rotation when the reversing switch is in one of its reversing positions and for the opposite direction of rotation when the reversing switch is in its other reversing position, the energizing connection for one of said motor windings including the speed responsive switch and its starting contact whereby such winding is deenergized when the motor comes up to speed, and means for establishing a reversing motor torque connection comprising the speed responsive switch and running contact thereof, and a switch which is closed by the reversing movement of the reversing switch mechanism and which is opened in response to the flow of current through the starting contact of the speed responsive switch.

2,330,649
TRACTOR DRIVEN CORN SHOCKER
Calvin Weaver, Mechanicsburg, Ohio
Application May 23, 1941, Serial No. 394,933
1 Claim. (Cl. 56—73)



In a corn cutting and shocking machine, a wheeled frame, stalk gathering and conveying means on said frame, means for cutting the stalks while the same are maintained in upright positions within said gathering and conveying means, a rotary shock-forming table carried by said frame for the reception of stalks discharged from said gathering and conveying means, a pair of turntable standards carried by said frame at the opposite sides of said table, guiding springs supported by said standards and projecting over said table to direct the stalks from the gathering and conveying means toward the center of said table, and means for simultaneously turning said standards to move the guiding springs carried thereby to inactive positions beyond the confines of said table.

2,330,650
CHARGE FORMER
Georg Weiche, Berlin-Reinickendorf, Germany; vested in the Alien Property Custodian
Application June 15, 1940, Serial No. 340,741
In Germany May 27, 1939
3 Claims. (Cl. 261—50)



1. In an internal combustion engine, the combination of an air admission pipe having a throttle pivotally mounted therein, a source of fuel supply under substantially constant pressure, said source of fuel supply having a pressure side and a suction side, apparatus for automatically adjusting the air-fuel ratio including a device responsive to the weight of the air passing through said air admission pipe for selecting at will the fuel injection pressure including a pilot's lever, a control device adapted to be controlled by said pilot's lever, a casing, a control slide slidably mounted in said casing and adapted to be

actuated by said control device and influenced by said device responsive to the weight of the air and by the pressure of said source of fuel supply as controlled by said apparatus; a spring biased sleeve for keeping said control slide in equilibrium, an instrumentality for controlling said throttle valve by said control slide, said control slide altering the position of said throttle valve until the air fed in a unit of time has a predetermined ratio with respect to the selected fuel pressure and until said control slide is simultaneously returned into its inoperative position a fuel supply by-pass through said casing, and a valve for said by-pass operable by the control slide in further maintaining a fuel-air-flow ratio.

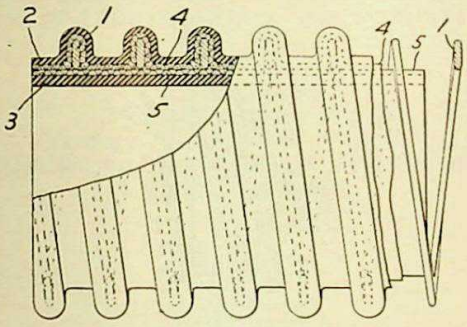
2,330,651

REINFORCED DUCK AND RUBBER HOSE

Theodore A. Welger, Trenton, N. J., assignor to Whitehead Bros. Rubber Company, Trenton, N. J., a corporation

Application May 13, 1942, Serial No. 442,729

1 Claim. (Cl. 138—56)



For reinforcing a hose internally cylindrical and externally rib and valley in form and having inner and outer walls of rubber and duck and rubber, confronting plies of fabric differing in effective area and embedded between the inner and outer walls of the hose and continuously coextensive therewith, and a spiral winding of metal reinforcement longer than broad in cross section and arranged edgewise between and completely covered by said plies of fabric with a continuous portion of the outer ply of fabric in loop form and in contact with its rim and side faces, thereby providing a solid structure.

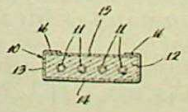
2,330,652

ELECTRICAL HEATING ELEMENT

Edwin L. Wiegand, Pittsburgh, Pa., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa., a a corporation of Pennsylvania

Application June 27, 1940, Serial No. 342,760

13 Claims. (Cl. 201—67)



1. An embedded-resistor electric heating element having a body of electrical insulation consisting at least approximately two-thirds of particles of granular electrical-insulating heat-conducting refractory material, and the granular refractory content of which consists at least 10% of impact-chipped particles of granular refractory material.

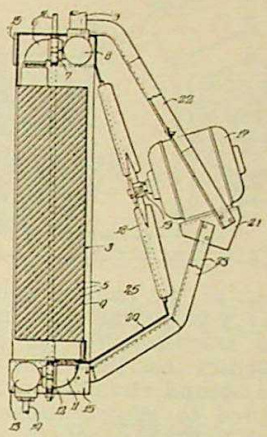
2,330,653

UNIT HEATER

Lyndon F. Wilson, Chicago, Ill., assignor to Wilson Engineering Corporation, Chicago, Ill., a corporation of Delaware

Application June 22, 1942, Serial No. 447,967

2 Claims. (Cl. 257—137)



1. A unit heater comprising a vertically disposed heating unit provided with heat radiating fins inclined with respect to the vertical so as to direct downwardly air blown across the unit, a motor driven fan, and means for supporting said fan in an inclined position to divert air in a downwardly inclined direction and deliver air through said unit in the general direction assumed by said fins and to afford gravity opposition to the end thrust of the fan shaft.

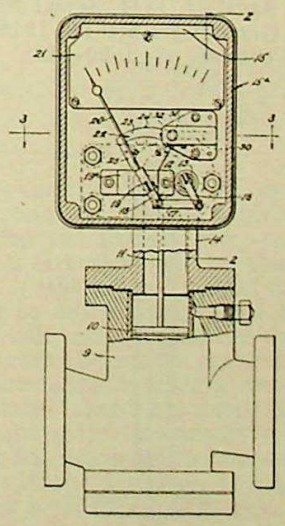
2,330,654

FLUID IMPULSE CONTROLLER

Herbert Ziebolz, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois

Application August 29, 1940, Serial No. 354,765

3 Claims. (Cl. 137—111)



1. A device of the character described comprising a rotatably mounted vane having a spiral peripheral edge; and means including a delivery nozzle spaced from one side of the vane adjacent to its peripheral edge for directing fluid under pressure higher than atmospheric pressure across the edge of the vane and a receiving orifice for the fluid on the opposite side of and spaced from the peripheral edge of the vane, whereby said peripheral edge varies the pressure of the fluid in the receiving orifice.

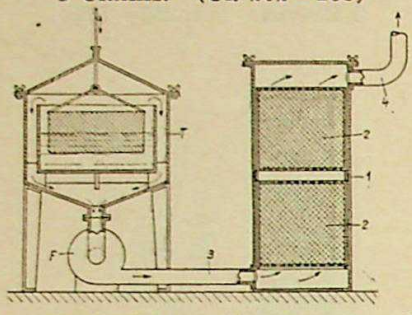
2,330,655

PLANT FOR RECOVERY OF VOLATILE OIL AND GREASE SOLVENTS

Jacques Zucker, Zurich, Switzerland

Application March 23, 1942, Serial No. 435,772

3 Claims. (Cl. 202—168)



1. In a plant of the character described, the combination of a first chamber containing volatile solvent, a receptacle for the articles to be freed of impurities insertible into said chamber and solvent, a second chamber, a receptacle for material adapted to adsorb vapors of the solvent, said last-named receptacle being removably disposed in the second chamber, means for forcibly conveying vapors of the solvent from the first chamber into the second chamber, a third chamber, means for removably locating the receptacle for vapor adsorbent material in the third chamber, means for supplying steam to said third chamber and receptacle, means for separately condensing the steam and the vapors to furnish water and solvent respectively, and means for supplying heated drying air to said third chamber and receptacle to dry the adsorbent material after it is freed of the solvent and steam.

2,330,656

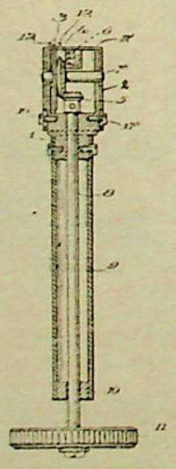
CLEARING DEVICE FOR AIR DUCTS IN THE LIP OF CASTING POTS

Adolf Zunzer, Waldshut, Hochrhein, Germany; vested in the Alien Property Custodian

Application April 24, 1941, Serial No. 390,206

In Germany April 29, 1940

4 Claims. (Cl. 90—12)



1. A tool for clearing air ducts in the lip of casting pots of type-setting machines, comprising a handle member, a milling cutter supported at one end of said handle member, means providing a housing for the cutter and said housing being carried by the handle member and having a movable wall with a slot therethrough aligned with the cutting edge of said cutter, drive means for the cutter extending through the handle and housing, and spring means normally maintaining said housing in a position enclosing the cutter and said housing being shiftable against the action of said spring means upon engagement with the lip of the casting pot for permitting the cutting edge of said cutter to extend through the said slot in order to operate within the lip of the casting pot.

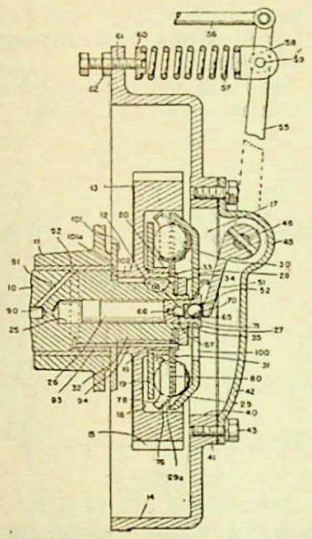
2,330,657

GOVERNOR STRUCTURE

Herman G. Adler, Detroit, Mich., assignor to Novi Equipment Company, Novi, Mich., a corporation of Michigan

Original application October 27, 1941, Serial No. 416,760, now Patent No. 2,319,654, dated May 18, 1943. Divided and this application April 12, 1943, Serial No. 482,784

8 Claims. (Cl. 308—233)



1. In a governor, a shaft having inner and outer axially extending counterbores arranged end to end, the outer counterbore being larger in diameter than the inner counterbore, a plug seated within the inner counterbore and having an axially extending projection within the outer counterbore at its inner end, ball bearings engaging the inner end of the outer counterbore in concentric relation to the projection of the plug, a ball substantially equal in diameter to the outer counterbore seated against the ball bearings and projecting endwise of the shaft for engagement with a spring biased lever of a throttle control, and a locking ring anchored within the outer counterbore at its outer end for retaining the ball in engagement with said ball bearings.

2,330,658

WELDING DEVICE

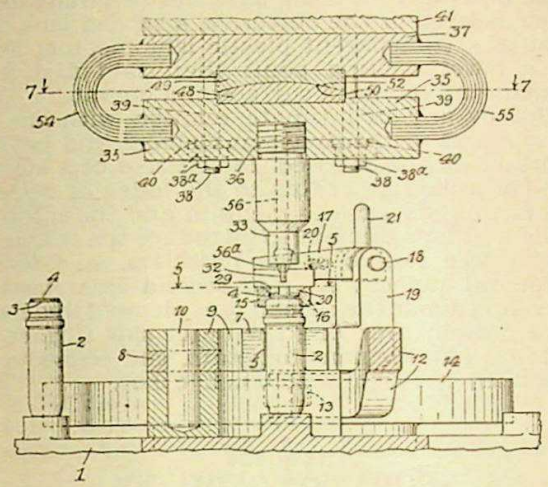
John C. Albright, Chicago, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Application June 8, 1942, Serial No. 446,177

10 Claims. (Cl. 219—4)

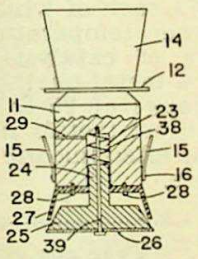
1. A welding device for welding metal pieces together comprising a holding member, a holding device thereon for holding separate pieces to be welded together, an electrode beneath which said separate pieces are brought, a power applying member for moving said electrode into contact with one of the separate pieces, comprising two opposed parts with a space between them, said parts fastened together but relatively movable, two adjustable members of rigid material located

in said space one fixed to one of said opposed parts and the other fixed to the other of said opposed parts, said adjustable members having con-



tacting spherical shaped faces, one face being convex and the other face being concave.

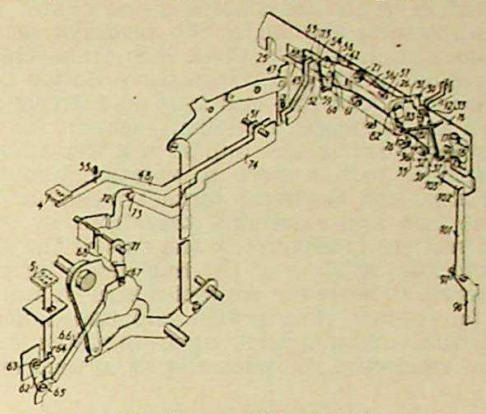
2,330,659
CEMENTING PLUG
George N. Anderson, Talco, Tex.
Application May 2, 1941, Serial No. 391,458
1 Claim. (Cl. 166—1)



A cementing plug comprising a plug body adapted for longitudinal movement in a well casing, spring fingers secured to said body adapted to engage the ends of casing sections to prevent return movement of the plug in the casing, a packing disk secured to an upper portion of said plug body, a packing cup secured to the lower end of said plug body with its free end downwardly extending, a mandrel head slidingly secured to said plug body arranged to assume a lower and an upper position and to expand said packing cup when in said upper position, and means biasing said mandrel head toward said lower position.

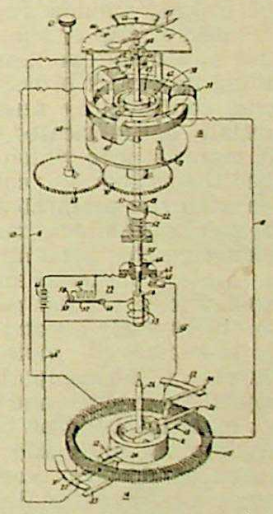
2,330,660
TABULATING MECHANISM FOR ACCOUNTING MACHINES
Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Original application December 29, 1939, Serial No. 311,573. Divided and this application December 10, 1940, Serial No. 369,464
3 Claims. (Cl. 235—62)

1. In an accounting machine, a traveling carriage movable through working and return strokes, means operated by the carriage for initiating a machine cycle, means for arresting the carriage in columnar positions during its working stroke, a blocking means to prevent operation of the cycle initiating means while the carriage is traveling from one columnar position to another, and means for withdrawing the blocking



means from effective position by the movement of the carriage as the carriage is being arrested in a columnar position.

2,330,661
TELEMETERING ARRANGEMENT
Ralph G. Arey, Swampscott, and Harold T. Faus, Lynn, Mass., assignors to General Electric Company, a corporation of New York
Application November 7, 1941, Serial No. 418,212
7 Claims. (Cl. 33—222)



1. A transmitter for a remote position-indicating system comprising a hollow center spool with a channel-shaped cross-section, a tilting coil wound circularly in the channel portion of the spool, a resistor coil wound toroidally around the spool so as to be wrapped around the tilting coil, said coils being insulated from each other, a magnetic needle system rotatable about an axis substantially coaxial with said coils and also rotatable about an axis transverse thereto whereby the magnetic needle system is adapted to rotate in response to the effect of relative variations in the direction of magnetic field and is adapted to tilt in response to energization of the tilting coil, said magnetic needle means carrying contacting mechanism normally spaced from the toroidal resistor coil and brought into contact therewith by tilting of the magnetic needle means.

5. A rotatable element for a transmitter in a remote position indicating system of the type in which electrical contacts are intermittently made in the transmitter for rendering the system effective but the contacting elements are normally separated for avoiding frictional drag on the rotatable element of the transmitter, com-

prising a circular impedance element and a rotatable element mounted for rotation on an axis concentric to the impedance element and having a rotatable spindle, a hub pivotally secured to said spindle with a pivot axis transverse to the spindle, a direction responsive device being connected to said hub and thus operatively connected to the spindle, a resilient element for normally maintaining the hub at a given angle to the spindle with respect to rotation about its pivot axis, and electrical contact means carried by the hub and extending therefrom in opposite directions transverse to the axis of the spindle whereby pivoting of the hub about its pivot axis serves to move the contact means in a direction for contact closing with said impedance at substantially diametrically opposite points thereof and rendering the telemetering system effective.

2,330,662

METHOD FOR MAKING WINDOW RUN

George T. Balfe, Detroit, Mich., assignor to Detroit Gasket & Mfg. Company, Detroit, Mich., a corporation of Michigan

Application July 31, 1940, Serial No. 348,935

3 Claims. (Cl. 153—2)

1. Method of making window run comprising continuously feeding a strip of substantially flat thin sheet metal to a metal working instrumentality and forming up-struck projections providing perforations, continuously feeding a wider strip of substantially flat fabricated covering material and soft material into which said projections may embed themselves into combining face to face relation with the perforated metal strip by bringing the soft material and metal into surface contact, centering the metal strip longitudinally upon the said soft material and the covering strip and folding over the flat portions of the same extending transversely beyond the edges of the metal strip to enclose the metal strip, compressing the layers of the composite strip and causing the projections to enter and be embedded in the said soft material, bending the composite strip along longitudinal lines and shaping the composite strip to window run contour at one end, the independent strip material and the composite strip being continuously fed at uniform speed, severing predetermined lengths from said composite strip at a flat portion thereof while continuously feeding, combining, bending and shaping other portions of the same strip, and thereafter completely forming the remainder of the severed portion of the strip to the same contour.

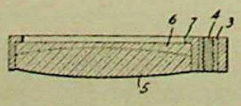
2,330,663

TELESCOPE OBJECTIVE AND METHOD OF MAKING SAME

Alva H. Bennett, Kenmore, and Roger S. Estey, Buffalo, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York

Application September 12, 1940, Serial No. 356,482

6 Claims. (Cl. 88—57)



1. An objective comprising a lens element formed of lens medium of a given index of refraction having finished optical surfaces on the opposed sides thereof of related curvature controlled according to the index of refraction of the lens medium to introduce in part the resultant focal power desired of the objective, a second lens element of a transparent plastic lens medium having a lower melting point than said first lens element and having a surface of a curvature controlled by and in intimate relation with one of the surfaces of the first lens element and having a surface on the opposed side thereof of a curvature controlled according to the index of refraction of said plastic lens medium and the surfaces of the first lens element to introduce the resultant focal power desired of the objective, an integral peripheral support on said second lens element extending about the second lens element and having a portion overlying the outer side surface of said first lens element to retain said elements in assembled relation with each other.

2,330,664

OXIDATION CATALYST

Owen G. Bennett and Alfred Van Andel, Forest Hills, Pa., assignors to Carbon Monoxide Eliminator Corp., Pittsburgh, Pa.

No Drawing. Application June 13, 1941, Serial No. 397,866

14 Claims. (Cl. 252—212)

1. An oxidizing catalyst capable of oxidizing carbon monoxide at temperatures materially lower than any of its constituents and comprising an intimate mixture of three finely divided catalyst materials, each of which is normally inactive at the lower temperature, the materials being a mixture of catalyst platinum metals with an oxide of a metal having an atomic number within the range of 25 to 29, inclusive and each of the platinum metals in the mixture being of an amount affecting the catalytic properties of the mixture.

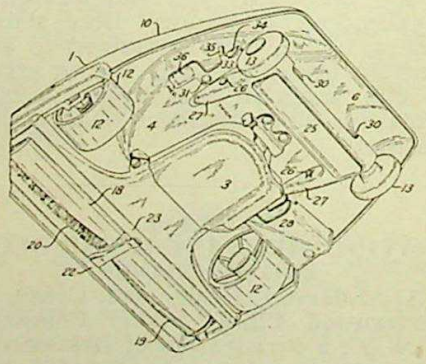
2,330,665

SUCTION CLEANER

Quentin Berg, Havre de Grace, Md., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application May 4, 1942, Serial No. 441,658

5 Claims. (Cl. 15—9)



1. In a suction cleaner, a body including a nozzle and a converter element seat, broad front wheels and narrow rear wheels to support said body movably over a supporting covering, a frame movably supporting said rear wheels for movement toward and from said body, a converter barrier carried by said frame adapted to extend into obstructing relationship to said seat, spring means urging a portion of said frame and said

rear wheels from said body and said barrier into seat-obstructing position, said frame including an abutment element adapted to contact said body under the urging of said spring means to limit the movement of said rear wheels from said body to provide a first nozzle height adjustment, and a manually operable wedge shiftable into and from a position between said body and said abutment element in which it limits the movement of said rear wheels from said body to provide a second nozzle height adjustment, characterized in that said wedge is shiftable only with the rear of said body depressed against the force of said spring.

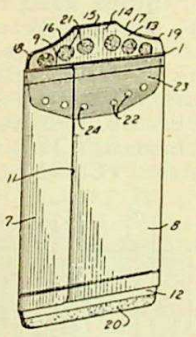
2,330,666

QUICK-OPENING ENVELOPE

Eugene B. Berkowitz, Kansas City, Mo., assignor to Berkowitz Envelope Company, Kansas City, Mo., a corporation of Delaware

Application May 17, 1941, Serial No. 393,968

5 Claims. (Cl. 229—80)



1. A quick opening envelope formed of fibrous material including, a body portion and a seal flap portion extending along an opening in said body portion through which contents of the envelope is adapted to be emptied, a gum repellant coating on one of said portions and contacting the other portion when the seal flap portion is in sealed position, said portion provided with the gum repellent coating having restricted uncoated sealing spaces within said coated area, gum between said portions for effecting seals at said restricted spaces, and substantially arcuate cutting edges provided by said coating on sides of the sealing spaces nearest said opening for severing any fibers which are imbedded in said gum when the flap portion is pulled loose in opening of the envelope.

2,330,667

HEAT SET INK

Isidor M. Bernstein, Brooklyn, N. Y., assignor to H. D. Roosen Company, Brooklyn, N. Y., a corporation of New York

No Drawing. Application January 12, 1942, Serial No. 426,469

5 Claims. (Cl. 106—29)

1. A heat-set printing ink vehicle comprising a high boiling petroleum fraction containing a pigment dispersing agent dispersed therein, said agent comprising a resinate of a metal selected from group 2 of the periodic table and a metallic soap of a metal selected from the group consisting of lead, manganese, cobalt, cerium and vanadium and of a substance selected from the group consisting of higher fatty acids, and resin acids.

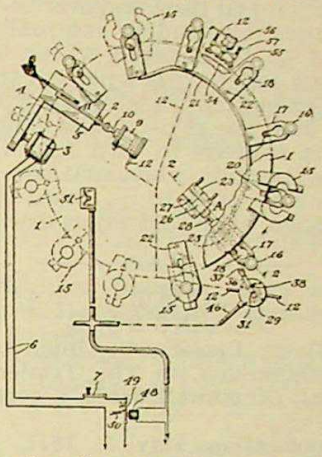
2,330,668

SAFETY MECHANISM FOR GLASS FORMING MACHINES

Charles M. Biggs, Lancaster, N. Y., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia

Application September 13, 1939, Serial No. 294,737

10 Claims. (Cl. 49—37)



9. A glass forming machine including a rotary table, an electric motor for driving the mold table, a clutch in the driving mechanism, a brake for preventing the rotation of the table, and means operated by movement of the mold table for shutting down the motor, disengaging the clutch and applying the brake, when parts of the forming machine are in abnormal position.

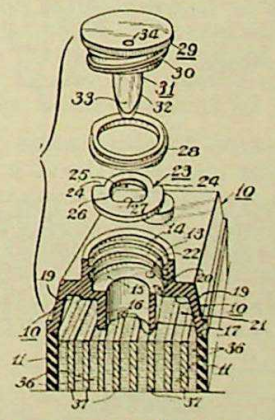
2,330,669

NONOVERFILL AND VENT CONSTRUCTION FOR STORAGE BATTERIES

George S. Biles, Hamburg, Pa., assignor to Price Battery Corporation, Hamburg, Pa., a corporation of Pennsylvania

Application September 20, 1941, Serial No. 411,606

4 Claims. (Cl. 136—178)



1. A cell cover assembly for storage batteries or the like containing electrolyte, comprising a cell cover provided with an internally threaded generally cylindrical opening, a downwardly-extending level-determining tubular skirt member, a peripheral seating member at the uppermost portion of said tubular projection, said seating member having an upper plane seating surface and having an opening extending from said upper seating surface to a point in the uppermost portion of the cell and above the lower end of said tubular skirt member, a disc-like valve rotatably mounted upon and disposed wholly above said seating member and having a non-circular filling opening therein communicating with said tubular skirt member, said valve having a pas-

sageway adapted to be brought into registration with the opening in said seating member to permit venting of said cell and to be brought out of registration with the opening in said seating member to provide an overfill-preventing air-lock in the upper portion of said cell above the lower end of said tubular projection, a stop for limiting the rotation of said valve to its open venting position and its closed overfill-preventing position respectively, and an externally threaded cap adapted to be engaged within said cylindrical opening and having a portion thereof generally complementary to and adapted to fit within and to key with the non-circular filling opening of said valve thereby to turn said valve to its open venting position when said cap is engaged and to turn said valve to its closed overfill-preventing position when said cap is disengaged.

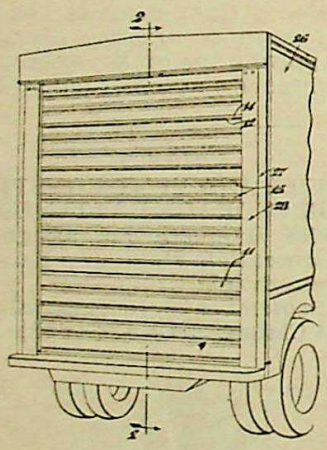
2,330,670

SLIDING DOOR

James J. Black, Cincinnati, Ohio, assignor, by mesne assignments, to The Trailer Company of America, Cincinnati, Ohio, a corporation of Delaware

Original application May 5, 1941, Serial No. 391,867. Divided and this application October 13, 1942, Serial No. 461,869

3 Claims. (Cl. 160—232)



1. A roll-up type door, comprising a plurality of panels disposed one above the other and hinged together, each of said panels being made of corrugated sheet metal, plates covering the channels on the inner face of the panels constituted by the corrugations, said plates being countersunk and fixed in place flush with the inner face of the door.

2,330,671

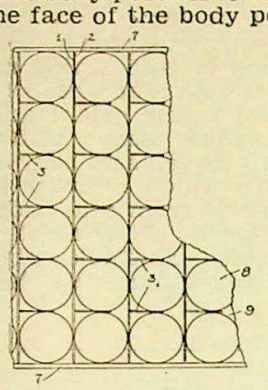
BOTTLE PARTITION OR DIVIDER

George W. Boh and William E. Turner, Chattanooga, Tenn., assignors to O. B. Andrews Company, Chattanooga, Tenn., a corporation of Tennessee

Application March 12, 1941, Serial No. 382,929

3 Claims. (Cl. 229—42)

1. A bottle partition element formed from a single blank for insertion between rows of bottles comprising a body portion of substantially the same height as the height of the bottles to be separated, vertical tabs struck from said body at spaced intervals and bent outwardly at right angles to the body for interposition between adjacent bottles in a row, a flap along the upper edge of said body portion, said flap being hingedly connected to the body portion to fold downwardly upon the plane face of the body portion, the flap



being of sufficient width to completely cover the tab openings formed in said body portion.

2,330,672

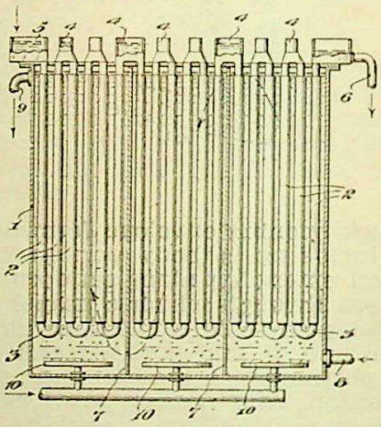
PROCESS AND APPARATUS FOR DIALYZING LATEX

Hendrik Roeloff Braak, Batavia-Centrum, Java, Netherlands East Indies, assignor, by mesne assignments, to P. Honig, Washington, D. C., Commissioner of the Board for Economic and Financial Affairs of The Netherlands Indies, Surinam and Curacao, as trustee

Application November 19, 1940, Serial No. 366,306

In the Netherlands July 11, 1939

15 Claims. (Cl. 210—8.5)



1. In the purification of latex by dialysis, the process which comprises passing a latex containing dissolved and entrained air through dialyzing cells of tubular form having smooth, substantially vertical cell walls partly constructed of a semi-permeable membrane leading directly upwardly to an air space above the level of said semi-permeable membrane and being free from obstructions tending to trap air beneath the surface of said latex, whereby all air liberated from said latex rises to enter said air space without collecting on said membrane, discharging the air thus collected from said air space and passing water through the apparatus in contact with said semi-permeable membrane outside said dialyzing cells.

2,330,673

FLASHLIGHT

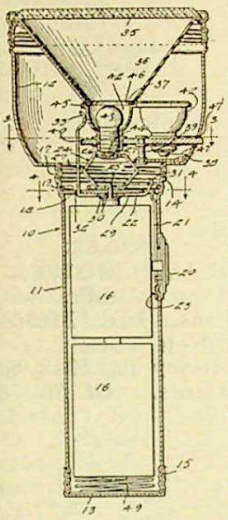
Frank J. Braum, Great Neck, N. Y.

Application January 15, 1942, Serial No. 426,916

2 Claims. (Cl. 240—10.66)

1. A flashlight comprising a reflector-receiving head, a conical reflector mounted therein having an opening at the apex, a disc in the head inwardly of and parallel to the larger end of the

reflector, eccentrically located means within the head rotatably mounting said disc, a plurality of auxiliary reflectors carried by said disc having their ends in approximately the same plane as said opening and movable through turning said disc one at a time from a position overlapped and concealed by the reflector into an operative



position in alignment with said opening of the reflector, a lamp in each auxiliary reflector, said head being provided with a slot through which a portion of the periphery of the disc extends so that said periphery may be engaged manually and the disc thereby be turned, each auxiliary reflector functioning to close and extend the area of the first reflector when aligned with the latter.

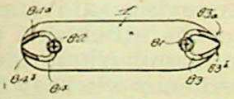
2,330,674

MECHANISM FOR IMPROVING THE DIRIGIBILITY OF SHIPS, SUBMARINES, AND AIRCRAFT

Henry C. Briggs, Brooklyn, N. Y.

Application October 19, 1939, Serial No. 300,250

10 Claims. (Cl. 114—151)



1. Mechanism for maneuvering a vessel having a hull, comprising pumping machinery located adjacent opposite ends of the vessel, conduits substantially looped upon themselves, said conduits being individual to the pumping machinery in each end of said vessel, one of said conduits having its ends located adjacent each other and opening through the hull of the vessel substantially at the bow thereof and the other of said conduits having its opposite ends located adjacent each other and opening through the hull of the vessel substantially at the stern thereof, and means for controlling the speed and operation of said pumping machinery, the resultant of the fluid forces at either end of said vessel being in a direction substantially normal to the longitudinal axis of said vessel.

2,330,675

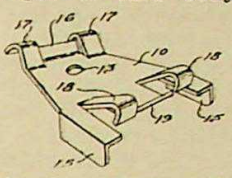
CLIP

Robert L. Brown, Detroit, Mich., assignor to William R. Wiley, Detroit, Mich.

Application July 11, 1941, Serial No. 402,009

3 Claims. (Cl. 24—73)

1. A clip for securing together a sheet metal panel and a channel shaped molding strip comprising a body portion having inturned flanges along the side thereof adjacent one end of the body portion, out-turned cam portions formed on opposite end edges of said body portion, and



spring fingers having their end edges directed toward the end edges of said cam portions and disposed beside said cam portions.

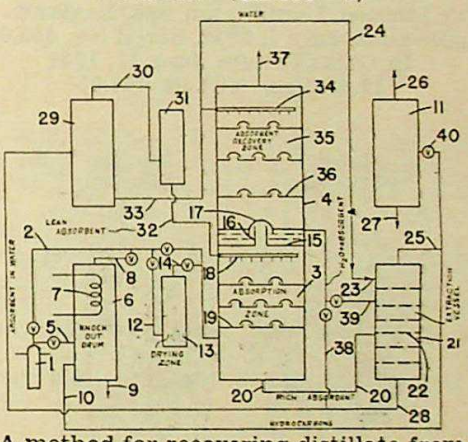
2,330,676

METHOD OF SEPARATING LIQUID FROM GAS

Stuart E. Buckley, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 19, 1940, Serial No. 357,361

9 Claims. (Cl. 196—7)



1. A method for recovering distillate from natural gas contained in same at pressures in excess of 1,500 lbs./sq. in., which comprises passing the gas, while maintaining it at a pressure of above 1,500 lbs./sq. in., into contact with a liquid hydrocarbon derivative containing a group capable of solubilizing the hydrocarbon in water, said derivative being soluble in oil and water.

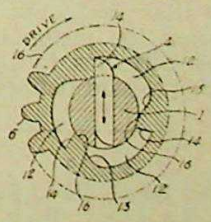
2,330,677

DRIVE MECHANISM

Richard W. Canfield, Middletown, N. Y., assignor to Clemson Bros., Inc., Middletown, N. Y., a corporation of New York

Application February 12, 1941, Serial No. 378,578

2 Claims. (Cl. 192—46)



1. In a construction including a rotatable shaft and an annular member coaxially mounted thereon, the periphery of the annular member constituting a driving surface, an overrunning clutch for establishing a driving connection between said member and said shaft upon relative movement thereof in one direction which comprises, a shuttle pin diametrically slidable in said shaft, said pin being of greater length than the diameter of the shaft and of lesser width than

the length of the annular member, said annular member having a central bore therein receiving said shaft in bearing engagement and having an odd number of like recesses therein in communication with the bore and equally spaced circumferentially thereabout, all of the recesses having a sloping cam face at a common end for camming the shuttle pin diametrically, and a substantially radial face for engaging the side of the shuttle pin, the bore and the recesses in said member all extending for the full axial length of said annular member, the mid point of the width of said shuttle pin and the mid point of the length of said annular member lying in a common plane normal to the axis of said shaft, whereby the shuttle pin is centered with respect ot the moment of force applied to the driving member.

2,330,678

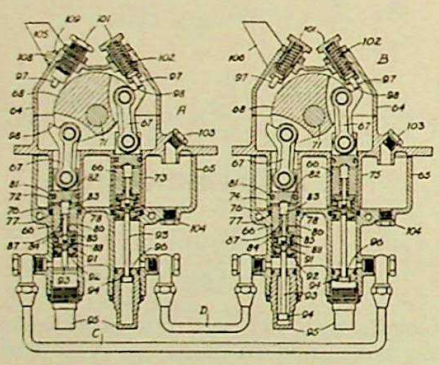
LIQUID PRESSURE REMOTE CONTROL SYSTEM

Quintin Healey Carlton, Leamington Spa, England, assignor to Automotive Products Company Limited, Leamington Spa, England

Application July 7, 1942, Serial No. 450,061

In Great Britain June 17, 1941

12 Claims. (Cl. 60—54.5)



1. A two-pipe-line liquid pressure remote control system comprising a transmitter unit and a receiver unit, a pair of cylinders in each unit, pistons in the cylinders, coupling means between the pistons of each unit to produce simultaneous movement of said pistons in opposite senses, two pipe-lines each connecting one cylinder of the transmitter unit to one cylinder of the receiver unit, stops limiting the movement of the pistons in both the transmitter and the receiver units, resilient means supporting the stops for the receiver pistons, and a reservoir, a valve adapted to at times connect each of the cylinders in said receiver unit to the reservoir, and means other than said stops to open either of said valves when the piston in the cylinder which that valve connects to the reservoir is moved beyond the position defined by its stop.

2,330,679

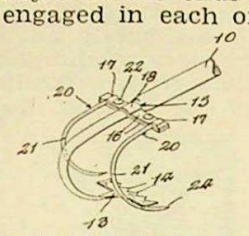
COMBINATION BEAN PULLER AND HOE

Ira L. Church, Reed City, Mich., assignor to Lottie Sanford, Reed City, Mich.

Application April 21, 1943, Serial No. 483,932

1 Claim. (Cl. 97—62)

A combined bean puller and hoe comprising a handle, a hoe member having a shank engaged in one end of the handle and having a serrated cutting edge, a bracket member detachably connected to the shank, the bracket consisting of a pair of superposed plates, each having registered corrugations for reception of the shank therebetween, and further having respective registered corrugations adjacent the ends of the plate, a tine member engaged in each of the registered



corrugations and bolt means extended through plates for drawing the corrugations firmly about the shanks of the hoe and tines.

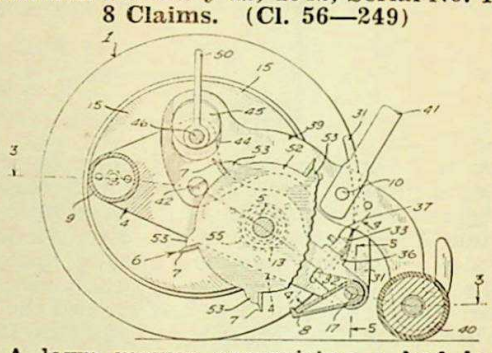
2,330,680

LAWN MOWER

Richard D. Clemson, Middletown, N. Y., assignor to Clemson Bros., Inc., Middletown, N. Y., a corporation of New York

Application February 12, 1942, Serial No. 430,589

8 Claims. (Cl. 56—249)



1. A lawn mower comprising a bed knife, a cutter reel having a shaft, resilient end frame members, radial-thrust type bearings between said shaft and positioned in a central area of said frame members for rotatably mounting said shaft, a substantially rigid connection between said end frame members spaced to one side of said bearings adapted to hold said frame members lightly pressed against said bearings, and clamp means engaging said frame members at points spaced to the other side of said bearings and operable to clamp frame members together against their resiliency whereby to impose an axial stress on said bearings to maintain alignment of the shaft and take up wear in the bearings.

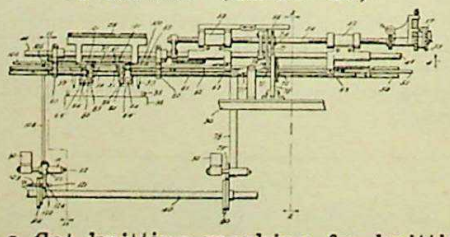
2,330,681

MACHINE AND PROCESS FOR KNITTING HOSIERY BLANKS

Arthur J. Cobert, Indianapolis, Ind., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind., a corporation of Illinois

Application February 24, 1941, Serial No. 380,181

16 Claims. (Cl. 66—89)



1. In a flat knitting machine for knitting flat hosiery blanks, a narrowing frame, means for moving said narrowing frame, a pair of narrowing slides mounted in said narrowing frame, narrowing fingers carried respectively by said slides, each of said narrowing fingers being provided

with a series of main transfer points, mechanism operating in timed relation with said frame-moving means for shifting said narrowing slides outwardly to increase the distance between said fingers, a longitudinal transfer point associated with each of said fingers and normally disposed above said main transfer points, and means operative as said narrowing slides move outwardly to cause said longitudinal transfer point to move downwardly through fabric supported on said main transfer points in front of the innermost thereof, to enter a stitch immediately in front of the stitch carried by such innermost main transfer point, and thence to move inwardly and rearwardly to a position in line with said main transfer points and adjacent the innermost thereof.

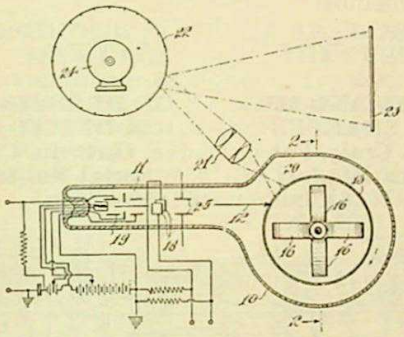
2,330,682

METHOD AND APPARATUS FOR TELEVISION COMMUNICATION

Stewart L. Clothier, Teaneck, and Harold C. Hogencamp, Maplewood, N. J.

Original application March 15, 1938, Serial No. 195,939, now Patent No. 2,268,523, dated December 30, 1941. Divided and this application December 30, 1941, Serial No. 424,390

2 Claims. (Cl. 178—7.2)



1. In a cathode-ray device for television transmission, a tube, screen structure in the form of a drum rotatably supported in said tube and having a photosensitive operating surface, means for developing a ray of electrons directed at said surface, means for deflecting said ray, an electrode supported in proximity to said surface at the region thereof bombarded by the electrons of said ray, and a connection from said electrode to a point exterior of said tube.

2,330,683

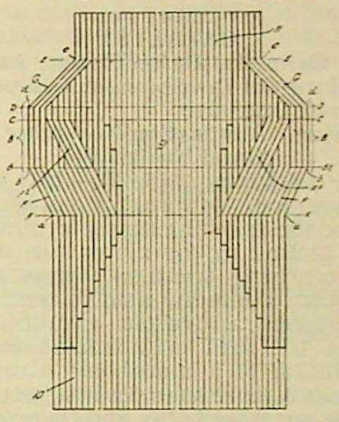
STOCKING

Arthur J. Cobert, Indianapolis, Ind., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind., a corporation of Illinois

Application April 13, 1942, Serial No. 438,711

8 Claims. (Cl. 66—187)

1. A flat knit hosiery blank composed of longitudinal stitch wales and transverse stitch courses and comprising a leg portion, a foot portion, and an intermediate portion, said intermediate portion including a central instep portion and heel portions at opposite sides respectively thereof, said intermediate portion being formed of a transverse rectangular area of greater width than said leg and foot portions and composed of a multiplicity of courses of equal lengths with the ends of said courses collectively forming parallel side edges of said rectangular area, a trapezoidal area between the leg portion and said rectangular area, a second trapezoidal area between said foot portion and said rectangular area, said trapezoidal areas each being composed of a multiplicity of courses of lengths progressively decreasing from said rectangular area to said leg and foot portions with the ends of the successive courses collectively forming divergent and convergent angular marginal side edges of said trapezoidal areas, respectively, said heel portions comprising divergent marginal groups of oblique wales extending from the opposite sides respectively of said leg portion through the first said trapezoidal area to said rectangular area in parallel relation to the divergent side edges of the first said trapezoidal



area, and internal sub-groups of said oblique wales continuing through said rectangular area adjacent said instep portion substantially to the second of said trapezoidal areas in inwardly spaced angular relation to the opposite parallel side edges of said rectangular area, said rectangular area including longitudinal marginal wales parallel to its said parallel side edges forming continuations of the first said groups of divergent wales between said side edges of said rectangular area and the outermost oblique wales of said sub-groups.

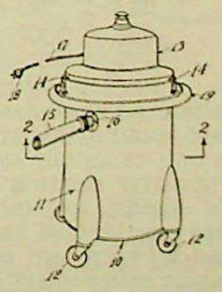
2,330,684

BUMPER FOR COMMERCIAL VACUUM CLEANERS

Joseph J. Colling, Pittsburgh, Pa.

Application October 18, 1941, Serial No. 415,573

1 Claim. (Cl. 15—1)



In a portable vacuum cleaner including a dust container normally disposed upright and having radially outstanding supports at its lower end projecting downwardly therefrom, and a removable cover for the upper end of the container carrying suction producing mechanism carried thereby, a combined bumper and handle for said container comprising a rim of appreciably greater internal diameter than said container, brackets extending radially of said rim between the inner periphery of the rim and the container with their inner ends secured to the container adjacent but in downwardly spaced relation to the upper end thereof and their outer ends fixed to the rim in spaced relation to each other circumferentially of the rim and midway the width of the inner face thereof to mount the rim in concentric

spaced relation to the container, said rim having its inner face transversely arcuate to provide a smooth and unobstructed surface and a ring of elastic material carried by and fitting snugly about the rim and projecting outwardly from the rim a greater radial distance than the outstanding supports, the portion of the ring projecting from the rim having its exposed surface arcuate transversely to provide a smooth and unobstructed outer peripheral surface for the ring.

2,330,685

CATALYST

Gerald C. Connolly, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 30, 1940, Serial No. 367,949

5 Claims. (Cl. 252—251)

5. Process for the production of a catalyst suitable for the cracking and reforming of petroleum oils boiling in the motor fuel and gas oil ranges comprising treating a naturally occurring clay with a mineral acid to remove alkalies and to produce a hydrous aluminum silicate, moistening the said acid treated clay with a 2–10% solution of a monobasic carboxylic acid containing not more than four carbon atoms, digesting the moistened clay and impregnating the same with hydrogen fluoride, and thereafter drying the said clay to produce a cracking and reforming catalyst.

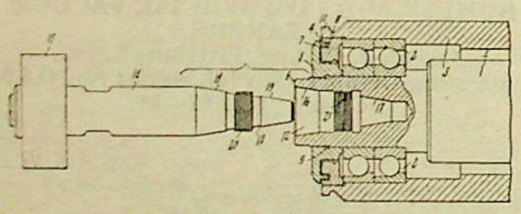
2,330,686

TOOL SPINDLE WITH REMOVABLE PROJECTION

Elton S. Cornell, Charlestown, N. H., and Charles N. Williams, Springfield, Vt., assignors to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont

Application September 11, 1941, Serial No. 410,424

10 Claims. (Cl. 287—125)



1. In combination, a spindle and a removable projection for said spindle, said spindle and projection having a pair of axially spaced cooperating tapered portions for locating said projection coaxial with said spindle, and interengaging cylindrical threaded portions of said spindle and projection located between said pairs of tapered portions for securing said projection to said spindle, said threaded portions having steep engaging side faces.

2,330,687

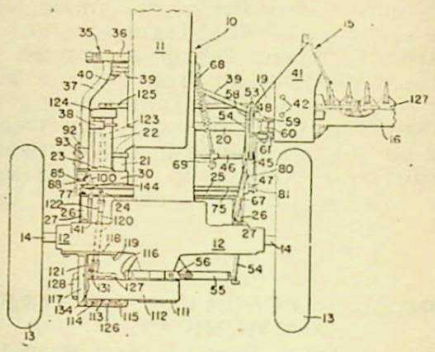
TRACTOR MOWER

Wilbur J. Coultas and Ellsworth T. Johnson, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application July 4, 1942, Serial No. 449,813

12 Claims. (Cl. 56—25)

1. A tractor mower comprising in combination, a cutter bar supporting member adapted to be mounted on a tractor and swingable relative thereto in a generally horizontal plane, a drive pulley adapted to receive power from the tractor engine, a driven pulley rotatably disposed on an axis fixed with respect to the axis of said drive pulley, a belt connecting said pulleys, a belt tightener shiftably disposed in engagement with the slack side of said belt, spring means urging said tightener against said slack side to tighten the belt, flexible power transmitting means for connecting said driven pulley with mower mecha-



nism carried on said cutter bar supporting member in any position of the latter within the range of its swinging movement, and lever means connecting said supporting member with said belt tightener for shifting the latter away from said belt in opposition to said spring means by force derived from swinging movement of said supporting member.

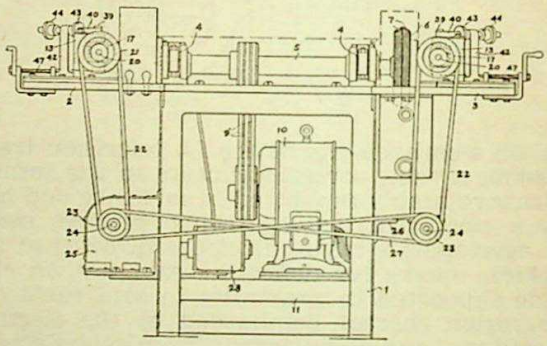
2,330,688

METHOD AND MEANS FOR DRESSING AND SHARPENING ROCK DRILLS

Ernest Craig, Falconbridge, Ontario, Canada

Application July 31, 1941, Serial No. 404,783

8 Claims. (Cl. 90—20)



1. A means for dressing rock drills, comprising a rotatable cutter, power driven rotatable means for supporting the drills having its axis parallel to the axis of the cutter, pivotal means for supporting said rotatable drill-supporting means movable toward and from said cutter upon the application of endwise pressure upon the bit with a movement parallel to the axis of said cutter to bring the perimeter of the drill into engagement with the side face of the cutter, and adjustable means for limiting the movement of the drill-supporting member toward the cutter.

2,330,689

REGISTER

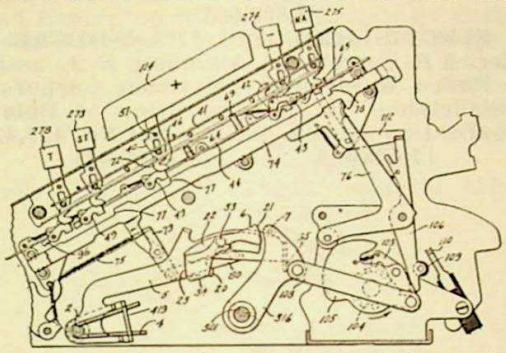
Loring Pickering Crosman, South Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Original application November 29, 1941, Serial No. 421,016. Divided and this application November 25, 1942, Serial No. 466,936

3 Claims. (Cl. 235—130)

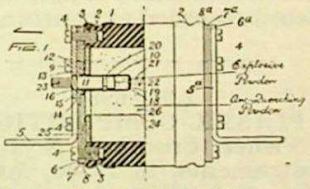
1. In a motor driven register having a driving train, a clutch in said train, a series of operation

keys, digit entering means comprising spring retracted settable keys, and latches engaging the digit keys to maintain them in set position; a normally restrained spring actuated member releasable by any operation key to engage the clutch, spring means operable by the driving



train to retract said spring actuated member to and beyond normal restrained position, and means operable by said member in the movement thereof beyond normal position to disengage the key latches and thereby release any set digit keys from set position.

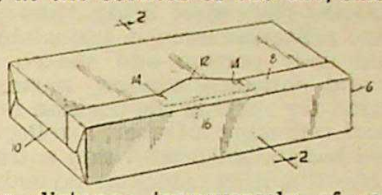
2,330,690
CARTRIDGE FUSE AND SWITCHGEAR INCORPORATING THE FUSE
Kurt Dannenberg, Islington, London, England, assignor of one-half to Electric Transmission Limited, Etruria, Stoke-on-Trent, Staffordshire, England
Application January 25, 1941, Serial No. 375,997
In Great Britain May 31, 1940
25 Claims. (Cl. 200—131)



9. A cartridge fuse comprising a refractory, insulating sheath, an helically coiled fusible element in said sheath, an arc-extinguishing powder filling in said sheath, hermetic closures at the ends of the sheath, a cylinder located at one of said ends coaxially of the coiled fusible element, said cylinder extending into the sheath, a trip hammer located in said cylinder and connected in series electrically with said fusible element, means activated by the fusing of the fusible element adapted to displace the trip hammer with a force sufficient to cause it mechanically to open an electric switch, and a locking device adapted to hold said hammer against return movement after it has been so displaced.

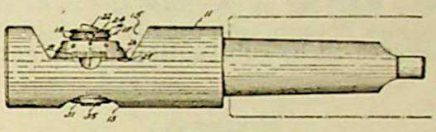
2,330,691
PACKAGE
Samuel I. Darrow, Palatine Bridge, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Application December 3, 1941, Serial No. 421,406
1 Claim. (Cl. 229—51)

In a package of the class described having a wrapper that is wrapped about the longitudinal surface of the package with its edge portions overlapping and its ends folded over the ends of the package, the outer one of said edge portions being adhesively secured to the underlying portion of the wrapper throughout the length thereof, the improvement which comprises said outer overlapping edge portion having a projecting tab with slits at the corners of the tab, said tab ex-



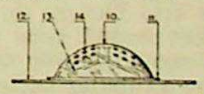
tending a distance transversely of said outer overlapping edge portion and the portion of the wrapper extending between said slits being unsecured to the underlying portion of the wrapper.

2,330,692
BORING TOOL
Charles B. De Vlieg, Ferndale, Mich.
Application July 24, 1942, Serial No. 452,233
11 Claims. (Cl. 77—58)



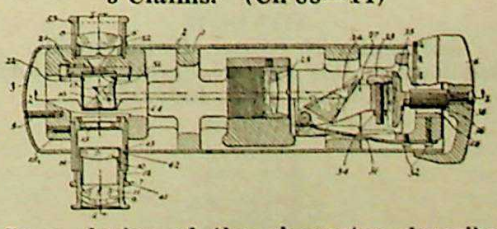
1. A boring tool comprised of a shank portion with a transverse opening therein, a cutter housing slidably disposed within said opening having threaded means thereon, a cutting tool within said housing, operating means threadably engaging said threaded means at one end of said opening, and retaining means oppositely disposed from said operating means for fixedly maintaining said housing in adjusted position within said opening, whereby a dependable minute accurate cutter adjustment may be obtained.

2,330,693
SHIELD FOR PUSTULES FROM VACCINATION AGAINST SMALLPOX
Jorge Erdély, Mexico City, Mexico
Application July 24, 1942, Serial No. 452,224
In Mexico August 6, 1941
6 Claims. (Cl. 128—154)



4. A smallpox-vaccination shield comprising a convex transparent formation of a red color, and a sealing disc fixed to the shield.

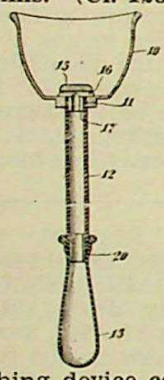
2,330,694
SPECTROMETER
Roger S. Estey, Buffalo, and Kennard W. Harper, East Aurora, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application May 9, 1941, Serial No. 392,710
5 Claims. (Cl. 88—14)



5. In a device of the character described, a compact and portable device comprising a longitudinal body portion, an entrance window and an eyepiece on opposite sides of said body por-

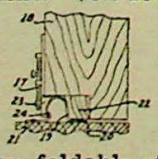
tion, said entrance window and eyepiece being substantially in alignment with each other to allow the observer to look substantially in a direction toward the object being observed, a dispersing and reflecting member adjustably mounted in said body portion and spaced from the eyepiece and entrance window, means on said body portion for varying the position of said dispersing and reflecting member, a reflector member in said body aligned with said entrance window for reflecting light entering said body through said window to said dispersing and reflecting member, and a reflector member in said body aligned with said eyepiece for reflecting light received from said dispersing and reflecting member through said eyepiece into the eye of the observer, the reflective surfaces of said reflector member aligned with said entrance window and said reflector member aligned with said eyepiece being adjacent each other and being so positioned relative to each other according to the line of travel of the light rays to and from the reflecting and dispersing member as to cause the light entering the entrance window and the line of sight through said eyepiece to be substantially in alignment.

2,330,695
EYE WASHING DEVICE
Eric W. Eweson, New York, N. Y.
Application June 18, 1942, Serial No. 447,510
3 Claims. (Cl. 128—249)



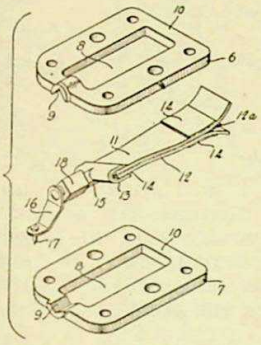
1. An eye washing device comprising in combination, an eye cup having an opening in the bottom, a straight ended tube in said opening having its end disposed wholly within said opening, a plug having a tubular slitted end resiliently wedged into the end of said tube to hold it in said opening, said plug having an enlarged head with shoulders which fit against the bottom of said cup and a lateral duct which connects with the longitudinal duct of the plug, said lateral duct being located immediately above the bottom of said cup, and the longitudinal duct of said plug terminating at said lateral duct to leave the head of the plug solid above the upper end of the longitudinal duct.

2,330,696
WINDOW
Alexander R. Exiner, Evanston, Ill.
Application July 2, 1942, Serial No. 449,426
5 Claims. (Cl. 160—187)



5. A two section foldable storm sash hingedly connected on a horizontal axis, rabbets extending the full length of the two sections along the longitudinal edges, said rabbets at the free corners of the sash being of greater depth, and removably secured guide means secured to the sash adjacent to the area of greater depth of the rabbets.

2,330,697
ELECTROACOUSTIC TRANSDUCER
Frederick R. Farrow, Jr., Audubon, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 2, 1942, Serial No. 437,430
17 Claims. (Cl. 179—100.41)

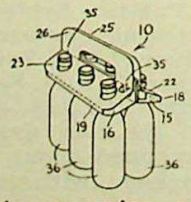


1. In an amplitude-responsive phonograph pickup device adapted for use in the reproduction of constant velocity records, a condenser formed of relatively movable flexible metallic elements having a fixed end and a free end and being adapted to be torsionally flexed about their longitudinal axes in response to the undulations of the record groove, said elements having a smaller lateral dimension at their free end than at their fixed end, whereby compensation is provided for the diminishing amplitude characteristic of a record recorded at constant velocity.

2,330,698
PLASTIC COMPOSITION
Harold W. Fisher, Cranford, N. J., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application April 21, 1939, Serial No. 269,163
3 Claims. (Cl. 260—4)

1. The method of compounding carbon black into rubber comprising mixing 1 to 10 parts by weight of carbon black with 1 part by weight of polyisobutylene having a molecular weight between 27,000 and 200,000 to make a master batch of said polymer and said carbon black, and then mixing at least part of the resulting master batch with rubber.

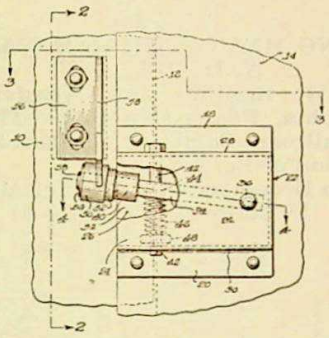
2,330,699
CONTAINER CARRIER
Alexander Flamm, Fairfield, Conn.
Application February 21, 1942, Serial No. 431,887
7 Claims. (Cl. 294—87)



4. In a container carrier, a handle, a pair of upper and lower walls, means hingedly connecting said walls at their inner edges to said handle with the walls of the pairs in vertically spaced

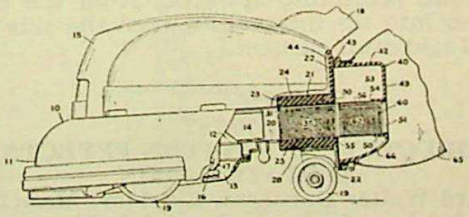
relation, said walls having pairs of openings of which corresponding openings in each of an upper and a lower wall comprise a pair, each of said pairs of openings adapted to receive a container neck, and the openings of said pairs of openings so related that as the lower walls are moved toward positions normal to the handle the holes of the pairs are moved toward registration.

2,330,700
SAFETY DEVICE
Vernie A. Fox, Detroit, Mich.
Application October 3, 1941, Serial No. 413,408
4 Claims. (Cl. 292—79)



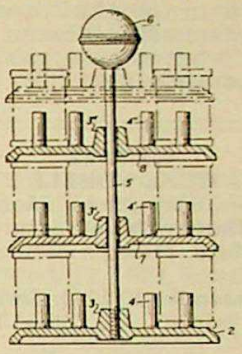
1. A device of the character described including, a keeper secured to a wall having an opening therein and which keeper is formed with a pair of cam surfaces angularly related to the wall and to one another, a latch bar having one end pivotally carried by and movable with a closure member for the opening and which latch is formed with a follower portion on the free swinging end thereof movable along said cam surfaces responsive to movement of the member, said follower having an extension for engaging the edge of the door and being guided thereby, means cooperable with said latch intermediate the ends thereof for exerting a pressure thereupon to oppose movement of said portion along said cam surfaces in one direction, and means selectively operable for varying said pressure.

2,330,701
SUCTION CLEANER
Dale C. Gerber, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 7, 1939, Serial No. 307,969
9 Claims. (Cl. 15—16)



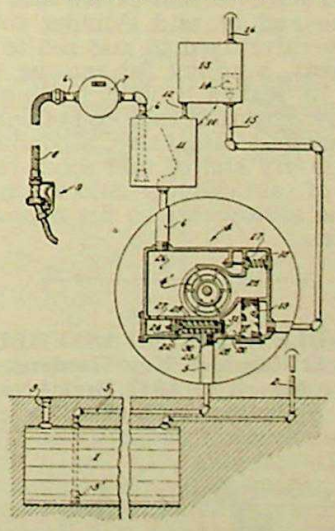
1. In a suction cleaner, a casing therefor, a fan chamber in said casing, an exhaust passageway in said casing leading from said fan chamber, sound-absorbing material in said exhaust passageway in said casing for absorbing the energy of the sound waves passing through said exhaust passageway, and muffler casing means cooperating with said cleaner casing to define a resonant chamber, means in said muffler casing means communicating with said exhaust passageway, said resonant chamber attenuating the sound waves emanating from said fan chamber.

2,330,702
SPOOL RACK
Hans Goldschmidt, Berkeley, Calif.
Application July 28, 1941, Serial No. 404,325
1 Claim. (Cl. 242—139)



A spool rack having a series of superimposed spool holders comprising uniform plates each having a center hub and spool pins projecting above the plates respectively; a support rod longer than the combined height of said plates and pins and projecting above the top plate a distance substantially the height of one plate and pins and having its lower end fixed in the lowermost of said plates; and a handle on the top end of said rod; whereby the intermediate plates slide freely upon said rod between said lowermost plate and the said handle.

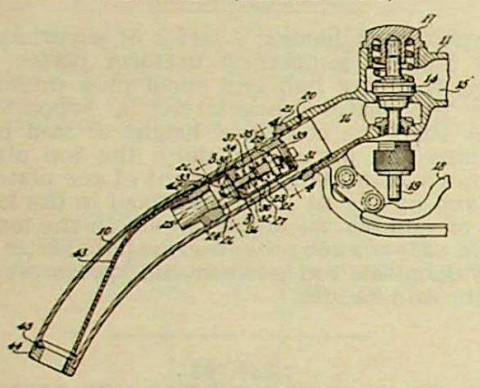
2,330,703
AIR SEPARATOR CONTROL FOR LIQUID DISPENSING APPARATUS
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application January 18, 1941, Serial No. 375,007
5 Claims. (Cl. 221—95)



1. A pumping unit for liquid dispensing apparatus having in combination a pump with a suction chamber and a pressure chamber, a by-pass valve between the chambers to relieve the pump of excess liquid pressures, and a piston operated means responsive to a decrease in the normal delivery pressure of the pump to restrict thereby liquid flow through the unit, said means comprising a piston chamber having one end thereof in communication with the pressure chamber, a piston located in the piston chamber and dividing it into a pressure and a suction side, a spring tending to resist the pressure of liquid against

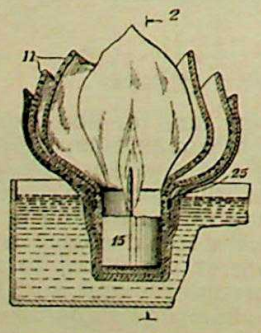
said piston, the other end of said piston chamber having an inlet supply port for the unit and an outlet in communication with said suction chamber, and a valve in said outlet connected to the piston and movable by it, said valve being provided with holes in the disk thereof to permit a restricted communication between the pump and said inlet port whenever the valve is seated on said piston chamber outlet.

2,330,704
HOSE NOZZLE
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application December 5 1941, Serial No. 421,719
4 Claims. (Cl. 226—127)



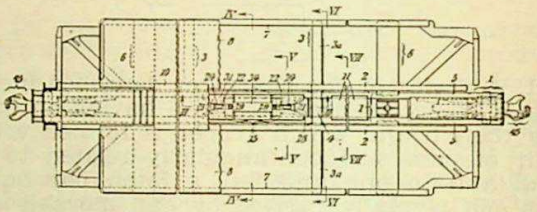
1. In a hose nozzle, a delivery spout provided intermediate its ends with a constriction forming a venturi, said spout also having a valve seat on the inlet side of the venturi, a member mounted within said spout on the inlet side of said venturi and provided with a cylinder located coaxially of said valve seat, a piston slidable in said cylinder, a piston rod fixed to said piston and extending through one end of said cylinder toward said valve seat, a valve fixed to said rod to cooperate with said seat, a spring for moving said valve away from its seat, a conduit leading from the throat of the venturi to that end of said cylinder which lies nearest said valve, a conduit leading from the delivery end of said spout to the last-named end of said cylinder, and a conduit leading from the atmosphere to the opposite end of said cylinder.

2,330,705
CANDLE BASE AND ASSEMBLY
Marcia C. Hamblet, Kew Gardens, N. Y.
Application March 29, 1941, Serial No. 385,808
7 Claims. (Cl. 67—23)



1. A base adapted to receive a candle and when supporting the candle to float on water, the base comprising a lower portion, a flaring portion extending upwardly from the lower portion and defining a watertight buoyancy-giving space of width substantially greater than the diameter of the candle to be received within the base, and means for securing the lower end of the candle within the said lower portion, supporting the weight of the candle, and fixing unchangeably the level of the lower end of the candle with respect to all parts of the said base, the candle base being waterproof over its exterior surface, containing material of higher melting point than the temperature of melting of the wax of the candle, and having its center of gravity below the line to which the base when supporting a candle sinks in water, so that the base remains upright.

2,330,706
BUFFING MEANS FOR RAILWAY CARS AND THE LIKE
Frederick W. Hankins and Wendel J. Meyer, Philadelphia, Pa., assignors to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 27, 1941, Serial No. 424,586
15 Claims. (Cl. 213—8)



10. Buffing means for a railway car or the like having an underframe with a longitudinal guideway, and a draft element with laterally-spaced side members movable endwise in the guideway, said means comprising a compression spring unit lodged in the interval between the side members of the draft element; opposing pairs of transversely-arranged inwardly-projecting stop abutments on said side members spaced longitudinally of the latter and normally engaged by the opposite ends of the spring unit; a bottom closure member removably secured to the underframe crosswise of the guideway to support the spring unit and thereby hold it in place; and fixed stop abutments for respectively engaging the opposite ends of the spring unit, said fixed stop abutments being spaced longitudinally of the guideway by a distance corresponding with the lengthwise spacing of the stop abutments on the draft element and projecting upwardly from the closure member into the interval between the side members of said draft element.

2,330,707
PRODUCTION OF PATTERN EFFECTS ON ACETATE RAYON
Richard Walter Hardacre, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application September 18, 1941, Serial No. 411,434. In Great Britain September 27, 1940
3 Claims. (Cl. 8—63)

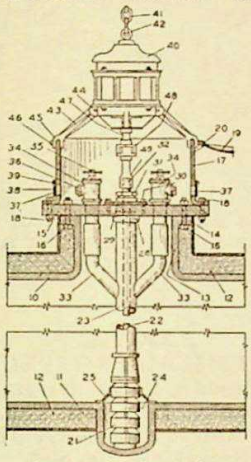
1. Process for the production of pattern effects on acetate rayon which has been delustred by means other than insoluble delustring inorganic compounds, by local relustring, which comprises printing local areas of said rayon with a paste containing a water soluble salt of adipic acid and then steaming the rayon.

2,330,708

APPARATUS FOR WITHDRAWING LIQUIDS FROM CLOSED CONTAINERS

Frederick J. Harlow, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Original application June 27, 1938, Serial No. 216,148. Divided and this application April 18, 1 Claim. (Cl. 62—1)



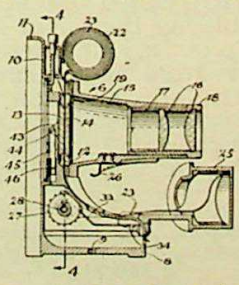
In apparatus for withdrawing a volatile liquid from a railway tank car having a sump in the bottom thereof, an outlet opposite the sump and a dome, the combination comprising a closure in sealed relation with the outlet; pumping means supported by the closure and extending into the sump, said pumping means including a plurality of rotors, a drive shaft operable from the exterior of the tank car for actuating the rotors, a housing in the container concentric with the drive shaft and a spline at the upper end of the drive shaft; discharge conduit establishing communication with the housing and the exterior of the tank car; and a motor for operating the drive shaft, said motor being constructed and arranged to be removably mounted on the tank car dome and engage the spline on the drive shaft.

2,330,709

PROJECTOR

Kennard W. Harper, Albin A. Gradisar, and William K. Armagost, Buffalo, and William F. Peck, Snyder, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York

Application May 24, 1940, Serial No. 337,000
6 Claims. (Cl. 88—28)



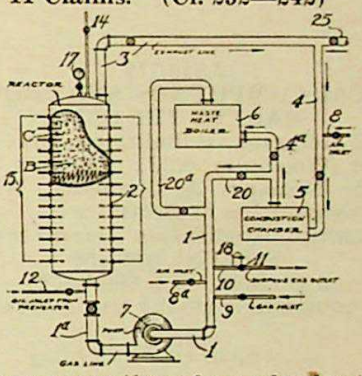
1. In a device of the character described, a film gate, said film gate having a fixed member and a movable member, means for urging said movable member toward said fixed member, means for supporting a film in operative position on a projector and for allowing said film to be fed through said film gate for projection, a source of light and a lens system for the projection of the portion of the film in the film gate, means for advancing said film comprising a shaft having a sprocket thereon, a lever on the movable member of said film gate and projecting therefrom, frictional means on said shaft directly engaging said lever arm on said film gate for automatically opening said film gate upon rotation of said shaft and before advancement of the film and to retain said film gate in open position during advancement of the film and permit closing of said film gate upon release of said shaft.

2,330,710

REGENERATION OF CATALYSTS

Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 11, 1939, Serial No. 261,174
11 Claims. (Cl. 252—242)



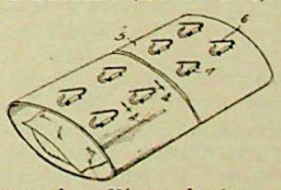
1. In the regeneration of an adsorbent catalyst by the combustion of contaminating material deposited thereon during a catalytic reaction, the improvement which comprises substantially completely removing combustible material from the effluent regeneration gases by burning said gases in a combustion chamber separate from the reaction chamber, cooling said gases and returning at least a portion thereof together with free oxygen to the reaction chamber.

2,330,711

BEDSPREAD ROLLER

Naomi W. Higginbotham, Phoenix, Ariz.

Application November 4, 1941, Serial No. 417,827
1 Claim. (Cl. 5—334)



In a bedspread rolling device, an elongated hollow casing of stiff material open at the ends, the said casing being approximately elliptical in cross section and adapted to receive a bed pillow therein, and a pair of circumferentially spaced rows of fastening elements attached to the exterior of the casing in axially separated relation for engaging a fold and the end marginal portion of a bed sheet.

2,330,712

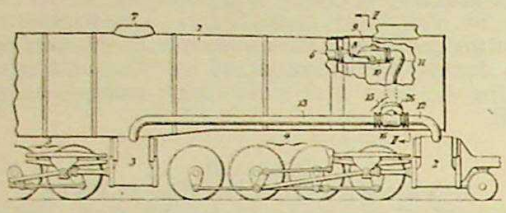
MEANS FOR AND METHOD OF PREVENTING LOCOMOTIVE WHEEL SLIPPAGE

Harry A. Hoke, Altoona, and Norman E. Merrell, Norwood, Pa., assignors to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 11, 1943, Serial No. 475,508
8 Claims. (Cl. 105—48)

1. In a steam locomotive, a boiler; a plurality

of cylinders for motivating separate driving wheels; conduits for conducting steam from the boiler to the respective cylinders; and control means in said conduits directly responsive to dif-



ferential velocity flow of steam in said conduits upon slippage of any of the driving wheels, to automatically reduce the supply of steam to the corresponding cylinders until such slipping wheels take hold.

2,330,713

CHEMICAL COMPOUNDS AND PROCESS OF MAKING THE SAME

George E. Holbrook, Wilmington, Del., and Louis Spiegler, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 9, 1940, Serial No. 369,350

5 Claims. (Cl. 260—372)

3. The compounds having the general formula:

$$Aq-NHCO-\overset{H}{\underset{R_2}{C}}-\overset{R_3}{C}H-SO_3-H$$

wherein Aq is an anthraquinone radical which is attached to the amido group through a carbocyclic carbon atom, one of the R's is hydrogen and the other alkyl.

2,330,714

PREPARATION OF THIOANILINE

Lee C. Holt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 13, 1942, Serial No. 426,647

6 Claims. (Cl. 260—580)

1. The process of preparing thioaniline which comprises mixing 4-amino-4′-nitro-diphenylsulfide with methanol and a nickel catalyst on diatomaceous earth and limestone, subjecting the mixture to contact with an atmosphere composed substantially of hydrogen at a temperature of about 80° to about 140° C. and a pressure of about 500 lbs. per square inch, removing the catalyst and its carrier by filtration, removing the methanol by distillation, drowning the residue of the reaction mass in water and filtering off the thioaniline.

2,330,715

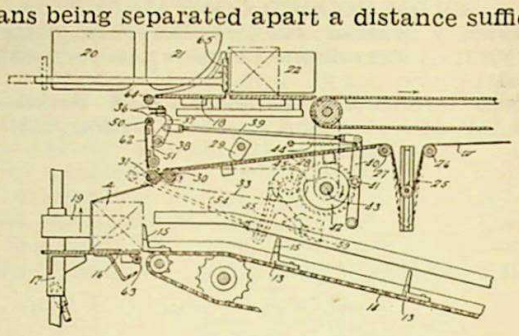
WRAPPER FEED FOR WRAPPING MACHINES

William Hoppe, Longmeadow, Mass., assignor to National Bread Wrapping Machine Co., Springfield, Mass., a corporation of Massachusetts

Application March 13, 1942, Serial No. 434,486

6 Claims. (Cl. 93—2)

1. A wrapping machine having a carrier movable between loading and discharge stations, a pair of friction rolls permanently spaced from each other and located between the stations at one side of the path of the carrier, means for rotating the rolls in opposite directions whereby a web passing between the rolls and held between an article and the carrier will be fed out by friction as required by the motion of the article and carrier, and means for severing the web between said rolls and carrier, the rolls and the severing means being separated apart a distance sufficient



to provide a sufficient amount of web projecting beyond the rolls at the instant of severance for contact with the next succeeding article without further feeding out of the web.

2,330,716

GEOCHEMICAL PROSPECTING

Leo Horvitz, Houston, Tex., assignor to Esme E. Rosaire, Houston, Tex.

No Drawing. Application November 24, 1939, Serial No. 305,896

10 Claims. (Cl. 23—232)

1. In geochemical prospecting for subsurface carboniferous deposits the steps which comprise collecting samples of soil in a region to be explored, subjecting each sample to a treatment suitable for altering the physical structure of water insoluble carbonates contained therein in such a way as to disengage from said carbonates any constituents associated therewith, recovering from the soil sample a constituent significant of the existence of a subsurface carboniferous deposit, other than a carbonate, or a product of its dissociation, and determining the quantity of said constituent.

2,330,717

GEOCHEMICAL PROSPECTING

Leo Horvitz, Houston, Tex., assignor to Esme E. Rosaire, Houston, Tex.

No Drawing. Application December 9, 1940, Serial No. 369,214

7 Claims. (Cl. 23—232)

1. A method for recovering a sample of gas containing hydrocarbons for analysis from a soil sample containing firmly adhering normally gaseous hydrocarbons, which comprises confining the soil sample in a closed system, subjecting the sample to a degassing treatment suitable for the removal therefrom only of interstitial gas, discarding such gas from the system, then subjecting the soil sample to an additional degassing treatment to remove therefrom a second quantity of gas, and collecting this latter quantity of gas for analysis for the hydrocarbon content thereof.

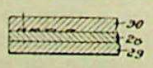
2,330,718

BANK NOTE

Heinz E. Kallmann, New York, N. Y.

Application January 5, 1942, Serial No. 425,653

12 Claims. (Cl. 283—8)



9. A bank note, bond or other instrument of value consisting of two outer and one inner superimposed flexible sheets of flexible non-in-

flammable, water resistant plastic materials, at least one of which contains a phosphorescent substance, at least one of said three sheets being provided on at least one inner face with depressions in the shape of indicating numbers or figures, said depressions being filled with a plastic material visibly contrasting with that flexible plastic material of which said depressions containing sheet is made, the outer sheets being stretchable and the inner sheet being non-stretchable in order to maintain the original shape of said bank note, bond or other instrument of value.

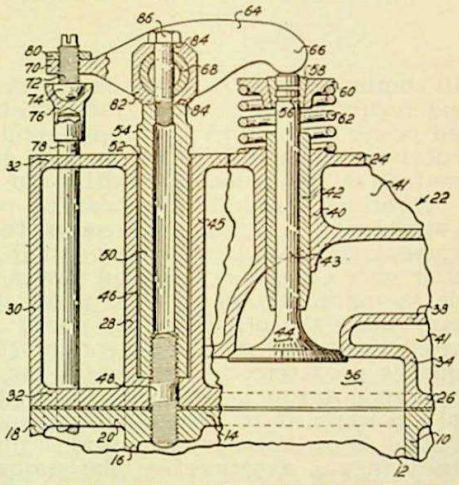
2,330,719

ROCKER ARM SUPPORT

Floyd F. Kishline, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application January 27, 1941, Serial No. 376,161

3 Claims. (Cl. 123—90)



1. In an internal combustion engine, a cylinder block, a head casting having valve mechanism therein and defining a cooling jacket, a boss extending from the top of said head to the bottom thereof and through said cooling jacket, said boss defining a well open on the top of said head, a stud bolt threaded into the top of said cylinder block and projecting into the bottom of said well, a nut having an elongated lower end threaded on the upper end of said stud bolt and a head portion positioned above the top of said head casting, a rocker arm shaft supported upon the top of said nut and a rocker arm journaled on said shaft for operating said valve mechanism, said nut being formed of a material having a higher co-efficient of expansion than said valve mechanism.

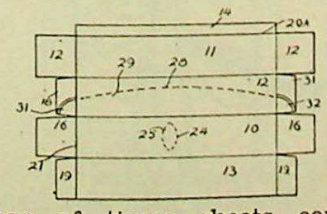
2,330,720

CARDBOARD CONTAINER

Rene Maurice Laflamme, Hull, Quebec, Canada, assignor to Canadian Cellucotton Products Company Limited, Toronto, Ontario, Canada

Application January 8, 1942, Serial No. 426,087

1 Claim. (Cl. 206—57)



A package of tissue sheets comprising a rectangular paper board carton, and a plurality of folded tissue sheets stacked in said carton, the folded sheets being horizontally disposed and presenting folded edges to one vertical or side wall of the carton, said side wall being provided with a line of weakness extending from end to end of the wall and spaced downwardly from the corner of the carton between said side wall and the top wall of the carton, end flaps extending transversely of the ends of the carton from the ends of said side wall and normally disposed intermediate other end wall forming extensions of the other walls of the carton, said end flaps being slitted arcuately from the ends of said line of weakness to the upper edges of the respective end flaps about a center which is substantially coaxial with said corner of the carton, said side wall of the carton being severable along said line of weakness to thereby form a reclosable opening adapted to be opened by folding the portions of said side walls between said line of weakness and said corner of the carton upwardly about said corner, thereby to permit withdrawal of tissues edgewise from the carton.

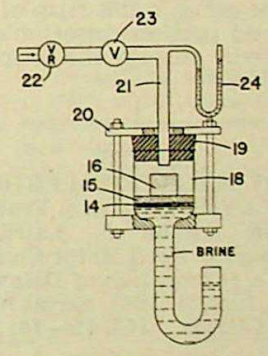
2,330,721

METHOD OF DETERMINING CONNATE WATER CONTENT OF CORES

Miles C. Leverett, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Application May 18, 1942, Serial No. 443,544

6 Claims. (Cl. 73—51)



2. A method of determining connate water content of a sample taken from an underground petroleum reservoir comprising the steps of saturating a membrane with water and retaining it thereafter in at least capillary contact with a body of water, placing the sample in physical contact with said membrane, exerting a differential pressure between said sample and said body of water through said membrane comparable to the pressure differential between the connate water of the sample and the water table in the undisturbed reservoir, and maintaining this pressure differential until the moisture content of the sample becomes substantially constant, and subsequently determining this moisture content.

2,330,722

CONDENSATION PRODUCT AND METHOD OF PREPARING AND USING SAME

Eugene Lieber, Staten Island, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 24, 1940, Serial No. 354,143

16 Claims. (Cl. 252—52)

1. A wax modifier consisting essentially of a condensation product of an aralkyl halide hav-

ing less than 7 alkyl carbon atoms, and an alkaryl hydroxy compound having about 5 to 20 aliphatic carbon atoms, said product being substantially non-volatile under fire and steam distillation up to about 600° F., soluble in mineral oils and having the property of depressing the pour point of waxy mineral oils when added thereto in small amounts.

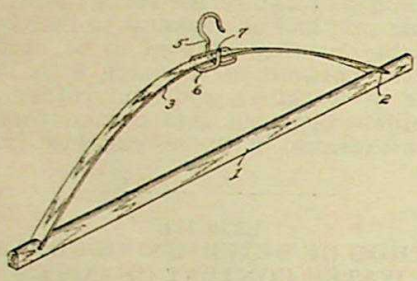
2,330,723

GARMENT HANGER

Wellington Lougheed, Flint, Mich.

Application February 4, 1942, Serial No. 429,487

6 Claims. (Cl. 223—88)



1. A garment hanger comprising a cross bar and a supporting strip, said cross bar being non-flexible in character and having a notch extending thereinto adjacent each of its ends at an angle one to the other, a flat strip of flexible material having end portions insertable in the said notches to thereby sustain the strip in a bowed form.

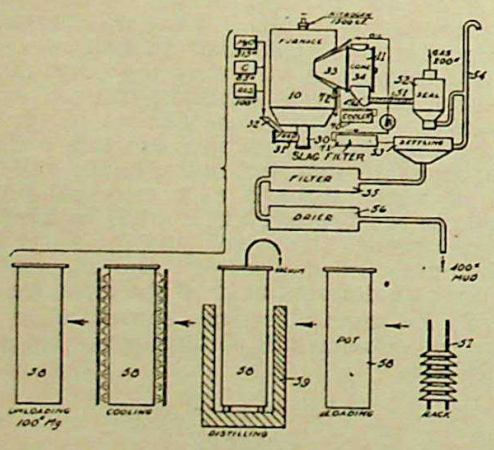
2,330,724

METHOD OF MAGNESIUM PRODUCTION

Russell H. McCarroll, Dearborn, Frank G. Shaub, Detroit, and Joseph S. Laird, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application July 24, 1941, Serial No. 403,834

9 Claims. (Cl. 75—10)



1. In a process of producing metallic magnesium comprising, the reduction of MgO by C, sharp quenching the reduction products, including Mg vapors, to metallic magnesium and attendant impurities to a solid slag in an oil spray, removing said slag from the oil-magnesium slurry so formed, collecting said magnesium from the oil into a thick mud, and distilling said mud under reduced pressure.

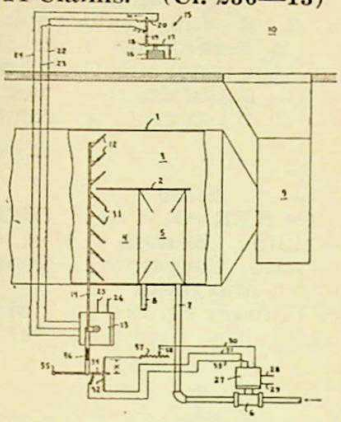
2,330,725

AIR CONDITIONING SYSTEM

William L. McGrath, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application June 16, 1941, Serial No. 398,307

14 Claims. (Cl. 236—13)



14. In combination, a first regulating device, a a second regulating device, separate electrically operated power means for positioning said regulating devices, means including variable impedance control means associated with said power means operable to graduatingly position each of said power means throughout its complete range of movement, and adjustable impedance means associated with at least one of said power means operable to maintain one of said power means stationary while the other of said power means is operated through a part of its range of movement upon a predetermined change in said control impedance means and to cause operation of both said power means upon further change in said control impedance means, said adjustable impedance means determining the amount of movement of said other power means which will take place before said one of the power means begins moving upon change in the control impedance means.

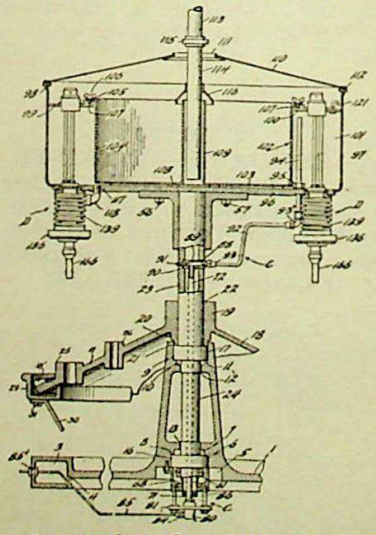
2,330,726

APPARATUS FOR FILLING CONTAINERS

Ronald B. McKinnis, Winter Haven, Fla., assignor, by mesne assignments, to Ronald B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla.

Application September 20, 1939, Serial No. 295,809

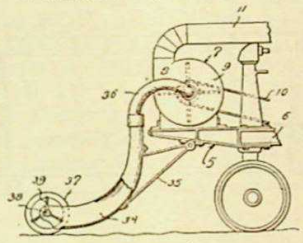
8 Claims. (Cl. 226—68)



7. In an apparatus for filling liquids subject

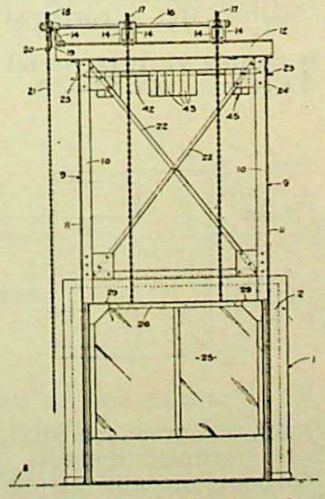
to oxidation into containers under non-oxidizing conditions, a tank, a well member removably secured within the tank to provide an annular passageway therein, the bottom of said well member being spaced above the bottom of the tank to form a restricted channel, means to remove the air from the passageway, a conduit to introduce the liquid into the apparatus extending through the well and in communication with the restricted channel whereby the liquid will be distributed to the passageway, and means to discharge the liquid from the passageway into the containers under non-oxidizing conditions.

2,330,727
GATHERING APPARATUS
Verna May, Senath, Mo.
Application April 3, 1942, Serial No. 437,577
1 Claim. (Cl. 56—19)



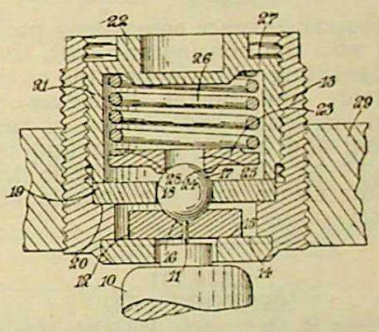
In a gathering apparatus, a suction device, means for mounting said device on a motor vehicle, means carried by said vehicle to receive material from the suction device, a conduit connected to the suction device, a scoop including an enlarged mount and an elongated curved neck directed upwardly and connected to said conduit, a bracket secured to the scoop and pivoted on the vehicle to permit the scoop to rise and fall, an axle journaled on the scoop and traversing the mouth thereof, ground wheels secured to said axle outwardly of the scoop for supporting the mouth thereof a selected distance from the ground, and blades secured to the axle and operating within the mouth for agitating growth to discharge seeds therefrom into the scoop by way of the mouth.

2,330,728
DOOR FOR INDUSTRIAL OVENS
Carl F. Mayer, Lakewood, Ohio
Application May 9, 1941, Serial No. 392,604
7 Claims. (Cl. 110—173)



1. In combination with an enclosure having a door opening, a door for said opening, suspension means for the door that is operative to raise and lower the door between open and closed positions, means effecting a separable pivotal connection between the top portion of the door and the adjacent portion of the enclosure when the door is in closed position, and self-releasing latch means associated with the lower portion of the door that automatically assumes effective condition as the door closes for retaining the door in closed position against normal internal pressure, said latch means yielding to release the door to relieve excessive pressure within the enclosure.

2,330,729
SHOCK-WITHSTANDING BEARING
Frederick William Meredith and Francis Henry Owens, London, England, assignors to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England, a British company
Application November 19, 1942, Serial No. 466,162
In Great Britain August 18, 1941
13 Claims. (Cl. 308—163)

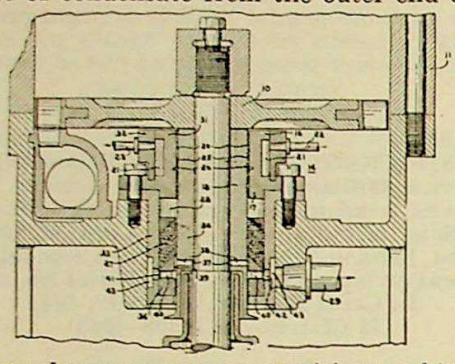


4. A shock-withstanding bearing comprising a housing formed with an internal face transverse to the axis of rotation, a bearing element having a transverse face supported by the face of the housing, a thrust member constrained against radial movement within the housing and having a spherical face and which bearing element is provided with a conical depression for engaging said spherical face, resilient means for pressing the thrust member axially against the bearing element and the bearing element against the transverse face of the housing, which interengaging spherical and conical faces of the bearing element and thrust member are adapted to centre the bearing element under the action of the resilient means, but which permit radial movement of the bearing element should the centering action of the resilient means be overcome.

2,330,730
TURBINE GLAND APPARATUS
Donald J. Mosshart, Ardmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 3, 1942, Serial No. 433,154
2 Claims. (Cl. 286—9)

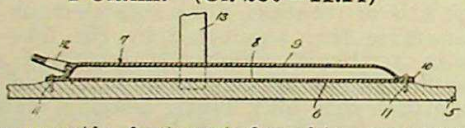
1. In a gland for sealing a substantially vertical turbine spindle with respect to the casing, a housing carried by the casing at the lower side thereof and encompassing the spindle; a sleeve carried by the shaft and arranged within the housing; said housing and sleeve having closely spaced cylindrical portions defining small running clearance communicating at its upper end with the interior of the turbine casing; said housing having an annular jacket space encompassing its cylindrical portion; means providing for the circulation of cooling medium through the jacket space to effect condensation of steam entering the running clearance space from the

casing; internal and external threads carried by the cylindrical portions, bounding the running clearance space, and extending so that, for the direction of rotation of the rotor, they exert a pumping action on the condensate in the clearance space opposed to pressure exerted thereon by steam in the casing; means opposing the discharge of condensate from the outer end of the



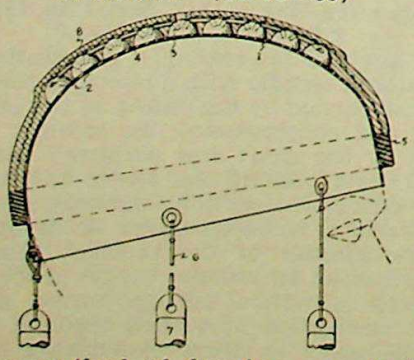
running clearance space comprising packing cooperating with the housing and with the sleeve; a ring cooperating with the packing at the lower end thereof; and means including passages formed in the lower end portion of the sleeve, in the ring, and in the housing and providing for the leak-off of condensate from the space between the sleeve and the spindle and from the packing.

2,330,731
SKI FOOT PAD
Melvin R. Oestreich, Wright, Minn.
Application March 19, 1942, Serial No. 435,408
1 Claim. (Cl. 280—11.14)



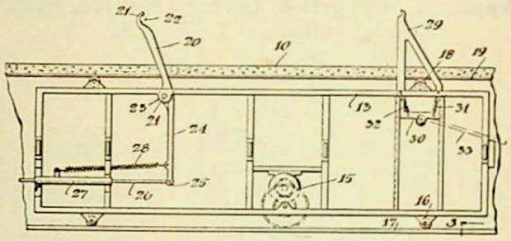
A pneumatic foot-rest for skis, comprising a body constructed of rubber material and comprising a flat bottom of a width to cover the foot-rest portion of the ski and lie flat on the foot-rest portion of the ski, an upper section constructed of rubber material and being curved transversely, a valve through which air enters the body inflating the body, and a marginal flange forming a continuation of the bottom and upper section, and through which securing nails are driven, securing the body in position on a ski under the foot of the wearer.

2,330,732
METHOD OF FORMING HELMETS
Elmer E. Oestrike, Detroit, Mich.
Application February 6, 1940, Serial No. 317,483
17 Claims. (Cl. 18—55)



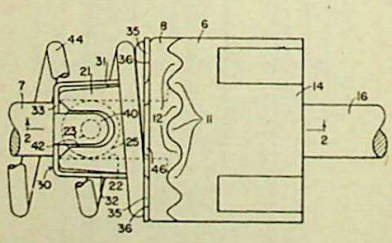
1. In a method of forming a scalp-treating helmet and individually fitting it to a patient, the steps of applying to the patient's scalp a tight-fitting covering, embracing the lower portion of said covering by an elastic band tensioned to hold it in place, and applying to the area of said covering exposed above the band a thick helmet-forming coating of quick-setting plastic material, substantially impervious to air, whereby said band defines a lower edge of the helmet.

2,330,733
AIR TERMINAL TAKE-OFF DEVICE
Joseph Olaszy, New York, N. Y.
Application April 30, 1941, Serial No. 391,053
3 Claims. (Cl. 244—63)



1. An air terminal take off device as described comprising a platform having a longitudinal median slot and supporting an airplane, posts to support said platform above the ground, a motor driven carriage beneath said platform, a lever on said carriage engaging a member of the airplane for manual operation, an inclined runway movably connected to the outer end of said platform, a second lever connected to the carriage and the airplane and traveling in the slot of said platform, a means to release the airplane from said platform before ascending the runway under its own power, a hydraulic jack to hold said runway in an upwardly inclined position with the airplane thereon at such an angle to the horizontal plane as to facilitate its climbing when leaving the runway, and a spring-controlled plunger on said carriage to start the motor of the carriage upon the release of the airplane by said first named lever.

2,330,734
SLIP CLUTCH
Talbert W. Paul, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application December 31, 1941, Serial No. 425,085
3 Claims. (Cl. 64—29)



1. A slip clutch comprising a shaft, a pair of clutch members journaled thereon, one of said clutch members being movable axially along said shaft away from the other member to disengage the clutch under an overload, a pin fixed to and extending radially from said shaft on opposite

sides thereof, a pair of rollers journaled on the ends of said pin, said movable clutch member having an aperture formed therein to receive said rollers, said aperture being elongated axially to permit axial movement of the clutch member with respect to the rollers, said rollers engaging the sides of said aperture at points spaced radially from the axis of the shaft and tracking substantially parallel to the axis, a retainer slidably embracing said shaft and having a pair of ears at opposite sides thereof extending axially over the ends of said pin for holding the pin and rollers in place, and a spring bearing against said retainer for holding the same tightly against said movable clutch member and for yieldingly urging the latter into engagement with said other clutch member.

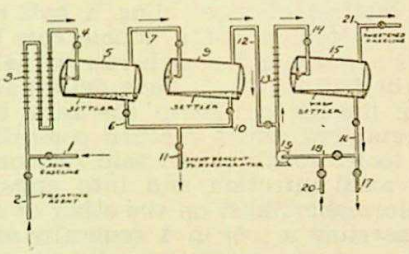
2,330,735

PROCESS FOR REFINING SULPHUR-CONTAINING HYDROCARBON OILS

Henry C. Paulsen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application January 24, 1942, Serial No. 428,048

4 Claims. (Cl. 196—30)



1. In the treatment of petroleum hydrocarbons containing mercaptans and corrosive sulphur, the step which comprises mixing the hydrocarbons with an aqueous solution containing a caustic alkali, a minor proportion of cupric hydroxide, and a small amount of a sulphide of a multivalent heavy metal in suspension.

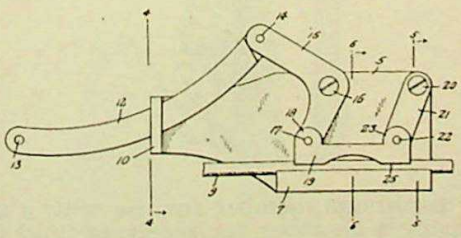
2,330,736

CLAMP

Lewis T. Paulson, Excelsior, Wis.

Application June 24, 1943, Serial No. 492,097

4 Claims. (Cl. 24—133)



1. A clamp of the character described comprising a plate having a stationary jaw thereon, a rocker on the plate, a swingable arm on the plate, a movable jaw bridging the rocker and the swingable member, said movable jaw being opposed to the stationary jaw, and means for actuating the rocker.

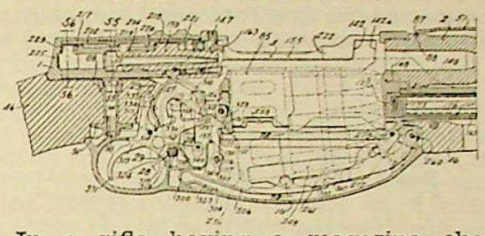
2,330,737

RIFLE MECHANISM

John D. Pedersen, Jackson, Wyo.

Application July 29, 1939, Serial No. 287,221

4 Claims. (Cl. 42—50)



4. In a rifle having a magazine chamber adapted to receive a clip of cartridges, a follower movable up and down in said magazine, lifting mechanism for said follower comprising a lever and a spring, means for ejecting a clip from said magazine comprising a spring so positioned and arranged as to be compressed by said follower lever during a considerable part of the downward movement of said follower lever consequent upon the charging of a new clip into the magazine.

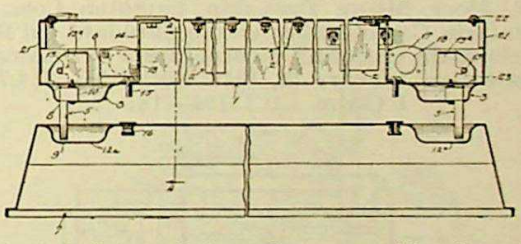
2,330,738

ELECTRIC LIGHTING FIXTURE

Paul D. Phillips, Elmhurst, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois

Application July 9, 1941, Serial No. 401,606

4 Claims. (Cl. 240—78)



4. A lighting fixture for use with elongated tubular fluorescent bulbs comprising an elongated channel-like hood, a trough-like reflector member extending lonigtudinally of said channel member and across the open bottom thereof, bulb holders mounted in fixed position relative to said hood as the hood and reflector member are being assembled for supporting a bulb in position in said reflector, said reflector having openings through which said bulb holders extend and causing initial registration between the reflector and hood, said reflector and hood being provided with other interengaging means for securing final registration between the reflector and hood in assembly and means for securing said reflector to said hood comprising a plurality of screws mounted on said hood and extending downwardly therefrom, and a plurality of nuts swiveled on said reflector and operable from the inside of said reflector for engaging said screws.

2,330,739

HYDRAULIC BRAKING SYSTEM

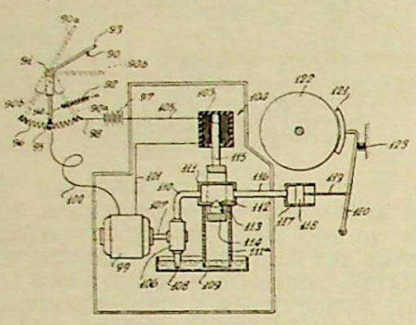
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York

Application November 29, 1940, Serial No. 367,827

10 Claims. (Cl. 188—170)

1. In a braking system, a multiplicity of fluid pressure operated brakes arranged in sets containing one or more individual brakes, power units individual to said sets, each power unit having means for pumping and supplying fluid under

pressure to said sets, valve means for regulating the pressure of the fluid at the brakes of said sets, said valve means being adapted to be acted upon by a force urging movement thereof to one of its positions, a solenoid adapted to exert a force opposing the first force, and manually controlled means for supplying current to said sole-



noid and for regulating the current at the will of the operator to cause said solenoid to exert varying forces ranging from zero to a force greater than the first named force, said manually controlled means automatically operating the valve of one unit in advance of another valve of another unit.

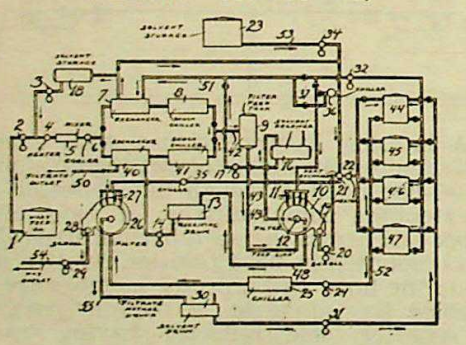
2,330,740

DEWAXING PROCESS

Oldrich S. Pokorny, Sarnia, Ontario, and Herbert H. Moor, Moore Township, Lambton County, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware

Application January 20, 1940. Serial No. 314,784

1 Claim. (Cl. 196—18)



Improved process for the removal of waxy constituents from waxy petroleum oils and for the segregation of said waxy constituents into various melting point fractions substantially free of non-waxy hydrocarbons having relatively low melting points, comprising mixing with said waxy petroleum oil a solvent selected from the class of aliphatic ketones characterized by containing an alkyl group and a total of five or six carbon atoms in the molecule, heating said mixture to secure complete miscibility between the respective constituents, chilling the heated mixture to a temperature at which said waxy constituents precipitate, separating a filtrate comprising the dewaxed oil and dewaxing solvent, removing the dewaxing solvent from said dewaxed oil, separating the waxy constituents, reheating the same to a temperature at which a liquid miscible phase is secured, gradually cooling the heated liquid under conditions adapted to progressively fractionally crystallize oil-free wax fractions of progressively lower melting point ranges substantially free of non-waxy low melting point hydrocarbons and under conditions adapted to retain the low melting point non-waxy constituents in the mother liquor, separating the respective wax fractions as they crystallize, washing the respective wax fractions with fresh solvent, combining the mother liquor and the respective wash filtrates and returning the mixture to the waxy feed oil.

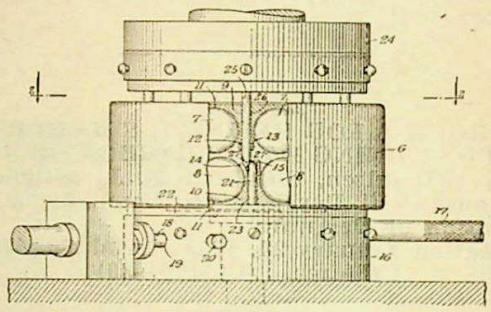
2,330,741

METHOD OF ASSEMBLING RETAINERS

Howell L. Potter, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut

Application August 9, 1941, Serial No. 406,119

4 Claims. (Cl. 29—84)



1. The method of assembling a ball retainer with one row of balls of a double row bearing which has a retainer for each row of balls, and wherein the ball retainers have deformable ball embracing fingers located in the zone between the two retainers, which method comprises, inserting a tool through one of said retainers in a generally axial direction and into engagement with a deformable finger on the other of said retainers, inserting a tool in a generally axial direction through the said other of said retainers into wedging engagement with said first tool, and forcing said tools generally axially inwardly relatively to each other to cause said first tool to bend the deformable finger in engagement therewith into ball embracing position.

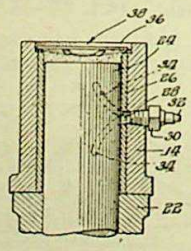
2,330,742

FLUID SEALING DEVICE

Ougljesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Application June 18, 1940, Serial No. 341,134

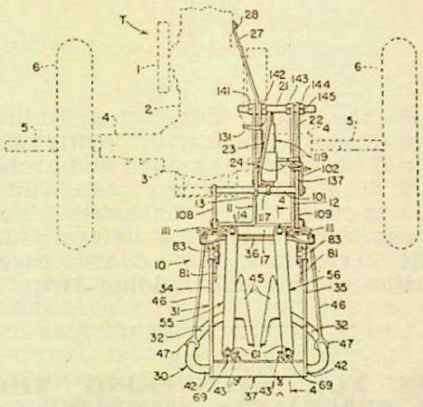
4 Claims. (Cl. 220—24)



1. A diaphragm member for use with a structure having a chamber for receiving fluid under pressure, said structure being provided with an opening communicating with said chamber for receiving the diaphragm, said diaphragm comprising a relatively flat circular member having a general dished shaped annular portion, said diaphragm being adapted to fit snugly within said opening with the dished annular portion of the diaphragm projecting in the direction of the pressure within said chamber, whereby said dia-

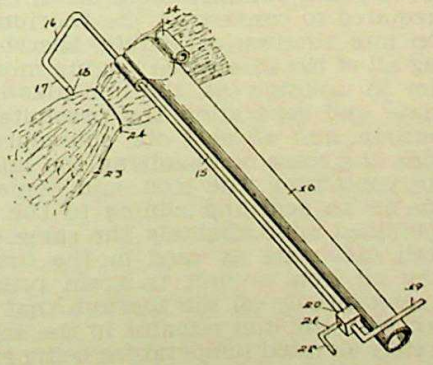
phragm is radially expansible by an increase in pressure within the chamber to increase the pressure engagement between the annular margin of the diaphragm and the engaged surfaces of said opening, said annular margin being provided with an abruptly formed sharp biting edge, and said diaphragm being provided with central portions thereof struck or deformed from the plane of the annular dished portion of the diaphragm to provide less resilient strengthening portions, increasing the strength of the diaphragm and thereby facilitating the use of a stock of less thickness to increase the resiliency of said annular dished and radially expansible portion.

2,330,743
BEET LIFTER
Clarence T. Rasmussen, Moline, and Robert D. Griff, Rock Island, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 28, 1941, Serial No. 408,586
19 Claims. (Cl. 55—106)



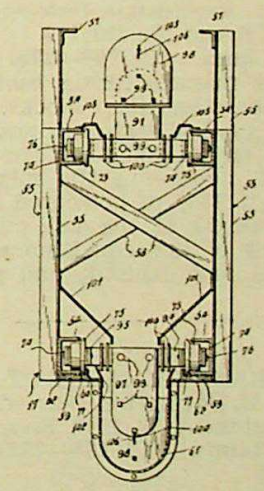
1. An agricultural implement adapted to be connected with a pulling vehicle, comprising a draft frame adapted to be connected with said vehicle, a ground working tool, a pair of generally horizontal laterally spaced draft links connecting said tool with said draft frame, and forwardly extending rigid means connected with said tool and slidably connected with said draft frame, said rigid means reacting against said draft frame for holding said tool in position.

2,330,744
MOP HOLDER
John Reed, Des Moines, Iowa
Application March 16, 1942, Serial No. 434,929
2 Claims. (Cl. 15—151)



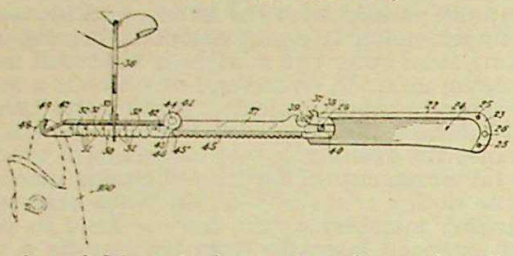
1. A mop holder, comprising a handle having its lower end shaped to engage and support one side of a mop and having at one side a tube substantially parallel with the handle and at its opposite side an extension having an opening therein, a rod extended through said tube and pivotally and slidably supported in position substantially parallel with the handle and having at its upper end a laterally extended handle, and having at its other end a laterally extended mop-engaging member, on the end of which is a mop-engaging member projected toward the handle and substantially parallel therewith, and shaped to enter the opening in said extension to prevent lateral movements of the mop-engaging members of the sliding rod, and whereby when said mop-engaging members of the rod are held in position extended laterally from the handle a mop may be inserted therein or removed therefrom without moving the ends of the mop lengthwise through the mop-engaging members, and whereby when the mop-engaging members are in position to clamp a mop, the mop-engaging members carried by the rod are fixed against lateral swinging movement, and manually operable means for clamping the rod in its mop-engaging position.

2,330,745
CONVEYER
William H. Reimann, Hialeah, Fla.
Application April 9, 1941, Serial No. 387,737
1 Claim. (Cl. 198—174)



A conveyer comprising a support, an elongated upwardly opening trough disposed therein, an upper and a lower pair of inwardly opening channel members mounted in the support and above the trough, driven endless conveyer chains mounted to move through the channel members, said chains and channel members being spaced laterally away from the trough, transverse bars connecting corresponding portions of the chains, supporting members secured to and projecting outwardly from the bars, conveyer elements attached to said supporting members and constructed and arranged to move longitudinally through the trough for conveying material disposed therein, said supporting members being formed of rigid material and being rigidly connected to the bars, said conveyer elements being formed of yieldable material, and flexible drag members connecting each of the conveyer elements to the supporting member of the next preceding conveyer element.

2,330,746
WEIGHING DEVICE
James M. Robinson, New York, N. Y.
Application March 14, 1941, Serial No. 383,265
6 Claims. (Cl. 265—53)

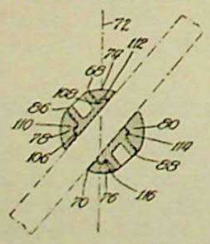


1. A weighing device comprising a handle, a scale beam carried by said handle and capable of extension therefrom, a plurality of weight indicia carried by said scale beam, revoluble means permitting said scale beam to move from its extended position into said handle and means whereby the suspension of said device at one of its indicia will balance said scale beam and such indicia will indicate the weight of an object carried by the free end of said scale beam.

2,330,747
PROCESS OF MANUFACTURING BUILDING BLOCKS
Joseph C. Roediger, Brooklyn, N. Y., assignor, by mesne assignments, to Standard Catalytic Company, a corporation of Delaware
No Drawing. Application October 28, 1939, Serial No. 301,777
1 Claim. (Cl. 106—279)

A process of manufacturing building blocks, curtain wall blocks and floor blocks, which comprises mixing in a cold state soil and 1% to 15% of water based on the weight of the soil to form a plastic mass, adding to the mixture of soil and water 3% to 15% of powdered hard asphalt based on the weight of the soil, adding to said mixture asphalt of low consistency to flux the mixture of soil and asphalt, and shaping into blocks.

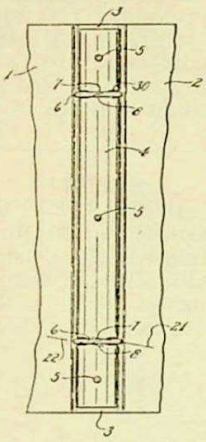
2,330,748
BRAKE BEAM STRUT
William H. Sagstetter, Denver, Colo.
Application September 30, 1940, Serial No. 358,950
4 Claims. (Cl. 188—232)



1. A brake beam strut of the rigid type comprising an elongated member, a pair of slots extending longitudinally of said elongated member and intersecting each other at an angle of approximately 80° whereby to define in the elongated member two intersecting pairs of substantially parallel wall portions, an enlarged socket in each of said slots, and means mounted in one slot and the sockets therein having a portion thereof in alignment with the walls of the second slot for holding a brake beam lever pin at an angle of 90° to the second slot, whereby a brake beam lever positioned in the latter slot will be held against lateral displacement.

2,330,749
RING BINDER CONSTRUCTION
John Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts
Application December 3, 1942, Serial No. 467,674
2 Claims. (Cl. 129—24)

1. A ring binder comprising a holding strip



having on the under side a longitudinal and transverse grooves, ring halves having offset legs to fit in said longitudinal groove and arched portions to fit in said transverse grooves and extend therefrom to meet above the holding strip, the ends of complementary ring halves being provided with kerf joints, and a binder case whose back portion carries said holding strip.

2,330,750
PROCESS FOR RECOVERING THORIUM FROM SUBSTANCES CONTAINING THORIUM AND IRON
Paul Schaller, Oberhausen - Sterkrade, Ernst Froelecke, Dinslaken, Karl Meyer, Schwarzheide, Ruhland, Oberlausitz, Otto Roelen, Oberhausen-Holten, and Robert Lüben, Oberhausen, Germany, assignors, by mesne assignments, to Hydrocarbon Synthesis Corporation, Linden, N. J.
No Drawing. Application December 31, 1938, Serial No. 248,898. In Germany January 7, 1938
2 Claims. (Cl. 23—22)

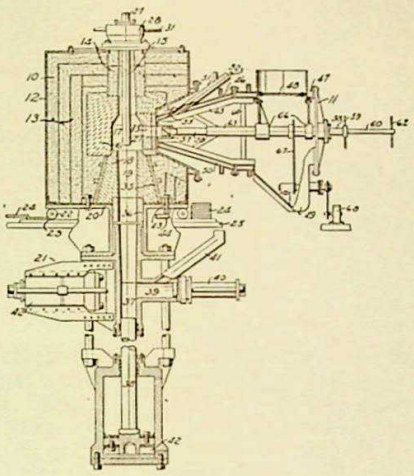
1. A process for recovering thorium from precipitates which contain thorium and a substantial amount of iron and which have been obtained by treating salt solutions containing said metals with alkaline precipitating agents, comprising a first stage including the steps of dissolving such precipitates in an acid, adding to the solution thus obtained more alkali carbonate than required to convert all the thorium in the solution into thorium carbonate, thereby precipitating all of the iron while leaving most of the thorium in solution as thorium-alkali double carbonate and separating the precipitate from the solution, and at least one subsequent stage including the steps of dissolving the latter precipitate containing the iron and some of the thorium in an acid and adding to the solution thus obtained approximately the same quantity of alkali carbonate as used in the first stage, whereby all iron present is again precipitated while substantially all the thorium that was associated with the iron remains in the solution, a moderately elevated temperature being employed in the precipitation of the iron in the first stage and a materially higher temperature in the precipitation of the iron in any subsequent stage.

2,330,751

REDUCTION APPARATUS

Frank G. Shaub, Detroit, Robert A. McCloud, Dearborn, and Burton E. Tiffany, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application July 24, 1941, Serial No. 403,835
9 Claims. (Cl. 13—8)



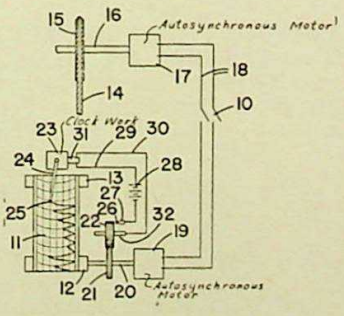
1. In combination in a reduction apparatus, comprising, an electric furnace, a condensing cone, said furnace and said cone abutting each other in one position and having a sealable connection therebetween, a support having a slot therein, said cone secured to said support, charging means secured to said furnace and extending through said slot in said support, and means on said support movably supporting said furnace, whereby said furnace and said charging means may be removed from said condenser to permit access to the interior of said furnace, and sealing means on said cone.

2,330,752

RATE-OF-PENETRATION INDICATOR

Samuel T. Sikes, Jr., Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 24, 1941, Serial No. 420,279
4 Claims. (Cl. 234—36.5)



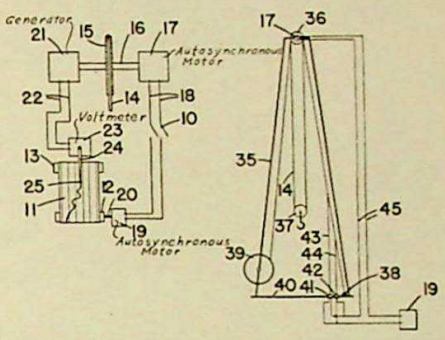
4. A device for recording the rate of linear motion of an object comprising, in combination, a chart, a chart advancing means arranged for advancing said chart amounts directly proportional to the amounts of linear motion of the object, a clock mechanism, a marking means activated by said clock to produce a record on said chart, a distributor mechanically linked to said chart advancing means, and a solenoid arranged to return said marking means to an initial position, electrically connected in a circuit including said distributor.

2,330,753

DIRECT READING RATE-OF-PENETRATION METER

Samuel T. Sikes, Jr., Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 24, 1941, Serial No. 420,280
10 Claims. (Cl. 234—29.5)



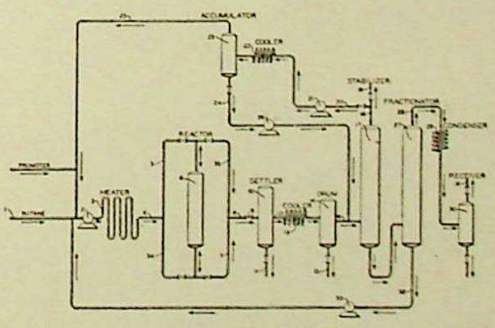
1. A device for recording the rate of penetration of a drill bit in a rotary drilling rig comprising, in combination, a chart, means for moving said chart simultaneously with the vertical movement of the drill bit in amounts proportional to said movement, an electrical generator having an output proportional to the speed of rotation, means arranged for rotating said generator at a speed proportional to the vertical speed of said drilling bit, a marking device arranged to produce a record on said chart electrically connected to said generator whereby the rate of penetration is indicated by said record.

2,330,754

ISOMERIZATION OF HYDROCARBONS

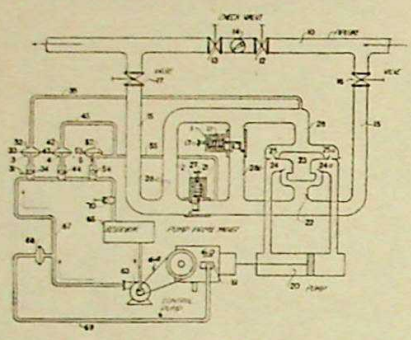
William E. Skelton, Eugene E. Sensel, and Arthur R. Goldsby, Beacon, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application December 5, 1939, Serial No. 307,562
8 Claims. (Cl. 260—683.5)



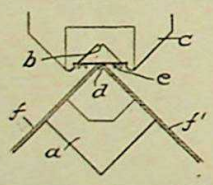
1. In the continuous isomerization of normal paraffin hydrocarbons by contact with a catalyst comprising a metallic halide, the steps comprising passing a hydrocarbon feed, consisting essentially of normal butane, in gas phase downwardly through a catalytic mass in a reaction vessel, maintaining the catalyst at a temperature of around 210 to 220° F. while under a pressure of around 150 to 215 pounds, intermittently increasing at substantially said conversion temperature the pressure to around 275 pounds for a relatively short time whereby the catalyst is subjected to washing with liquefied butane to remove impurities including metallic halide-hydrocarbon complex formed in the conversion reaction, and removing said impurities together with products of liquid phase conversion.

2,330,755
PIPE-LINE CONTROL SYSTEM
Sydney S. Smith, Scarsdale, N. Y., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 29, 1942, Serial No. 456,723
4 Claims. (Cl. 103—11)



1. In a pipe line system, the combination of a pipe line, a pump, a suction inlet connecting said pump with the pipe line, a discharge outlet having two parallel branches connecting said pump with two spaced points in the pipe line downstream of the inlet, normally closed pressure-actuated valve means in the outlet branch nearest the inlet adapted to open in response to a predetermined high discharge pressure, and normally closed pressure-actuated valve means in the pipe line between the two outlet branches adapted to open in response to a predetermined high suction pressure.

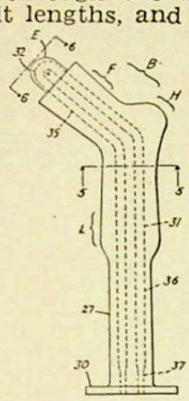
2,330,756
METAL EDGE BOX STAYING MACHINE
William D. Stanger, deceased, late of Seaside Park, N. J., by Esther M. Stanger, executrix, Seaside Park, N. J., assignor to Louis Wolf, Elkins Park, Elias Wolf, Dresher, Howard A. Wolf, Jenkintown, and Walter L. Wolf, Rydal, Pa., copartners, trading as National Metal Edge Box Company, Philadelphia, Pa.
Application November 24, 1941, Serial No. 420,192
3 Claims. (Cl. 1—12)



1. Means for staying the meeting edegs of the angularly disposed walls of an article by the application thereto of a metal strip and bending the same around said meeting edges, said means comprising an anvil having two faces extending at an angle to each other, a die having a recess whose faces extend at the same angle to each other and which are complementary to the anvil faces, and a rib extending longitudinally along the bottom of the recess of the die, the anvil being recessed along the corner or apex thereof for reception of the rib.

2,330,757
HOSIERY FORMING AND DRYING DEVICE
Harold E. Stout, Reading, Pa.
Application November 22, 1940, Serial No. 366,602
3 Claims. (Cl. 223—76)

1. A hosiery forming and drying device comprising a return-bend copper conduit having free end lengths of circular cross section and the remainder thereof with flattened sides and lengths next to the bend at a foot angle to remaining leg lengths, an aluminum body molded about the conduit having form-element receiving portions including a toe-form element receiving extension and apertures through the body between said flat-side conduit lengths, and aluminum toe and

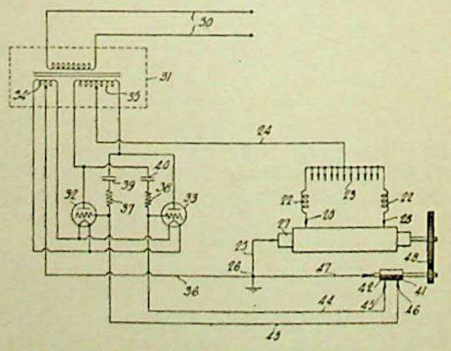


leg form elements each including separate members fitting the corresponding receiving portion at opposite sides of the body, one member of each said elements having a screw-receiving portion and the other an aperture for register with the corresponding said body aperture for the reception of a screw for holding the form elements to the body.

2,330,758
GEOCHEMICAL PROSPECTING
Millard S. Taggart, Jr., Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 26, 1940, Serial No. 371,825
4 Claims. (Cl. 23—232)

2. A method for treating a soil sample for the recovery therefrom of a gas to be analyzed for the presence therein of constituents significant of subterranean petroliferous deposits, which comprises intimately mixing with the soil a substance which, upon treatment with strong mineral acid, evolves a gas other than a hydrocarbon gas, treating the mixture with a strong mineral acid, and collecting the evolved gas for analysis.

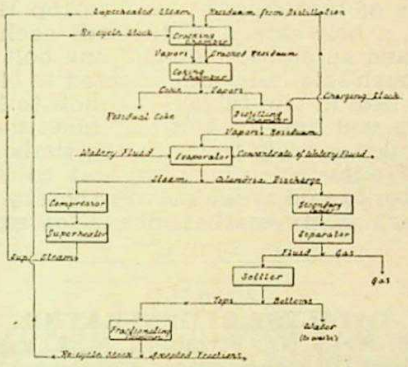
2,330,759
CIRCUIT-CONTROLLING APPARATUS
Richard Taylor, Cambridge, Mass., assignor to The Magee Carpet Company, Bloomsburg, Pa., a corporation of Pennsylvania
Application May 7, 1941, Serial No. 392,400
17 Claims. (Cl. 175—335)



1. In a circuit controlling apparatus, an electrical device whose energization it is desired to control, current supply connections for said device, contact making means for completing said

connections during a predetermined interval, a source of alternating current, rectifying means including a grid-controlled rectifier tube for energizing said device from said source via said connections, means for applying a negative biasing potential to the grid of said rectifier tube of a magnitude to render the tube normally non-conducting, and means for rendering said tube conductive after the commencement of said interval and for permitting said biasing potential to become effective before the termination of said interval, whereby said device is energized without making or breaking said connections while current is flowing therein.

2,330,760
CRACKING AND DISTILLATION OF OILS
Alfred M. Thomsen, San Francisco, Calif.
Application September 5, 1939, Serial No. 293,314
3 Claims. (Cl. 196—61)

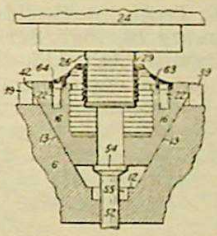


1. The method of cracking and distilling an oil which comprises: firstly, a cracking stage in which the source of heat consists of a flow of steam superheated to the requisite temperature and yielding two products, namely, a liquid residuum and superheated vapors; secondly, a coking stage wherein the products yielded under "firstly" further interact with the production of a solid residuum of coke, said coke being withdrawn from the process; thirdly, a distilling stage wherein the steam and vapors issuing from "secondly" are further cooled by intimately commingling same with the incoming charging stock thus yielding two products, namely, a liquid portion consisting in part of the residual of the admixed oil and in part of high boiling oil fractons derived from condensing vapors, and a gaseous portion consisting of superheated steam and vapors of low boiling oil fractions, said liquid portion being transferred to the cracking stage described under "firstly" and constituting the oil acted upon therein by the superheated steam first introduced; fourthly, a condensing stage in which the steam and vapors from "thirdly" are further cooled by converting the heat resident therein, both sensible and latent, into latent heat of evaporation of water, maintained out of contact with said oil vapors and steam, at a lower pressure than that of the condensing steam, thus condensing the mixture of oil vapors and steam and simultaneously producing a new supply of steam at a lower pressure than that of the condensing vapors, said steam being then superheated, compressed and returned to the initial cracking stage described under "firstly," thus becoming the flow of superheated steam therein specified.

2,330,761
CHEMICAL PROCESS
Carl O. Tongberg, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 30, 1939
Serial No. 311,933
15 Claims. (Cl. 260—683.5)

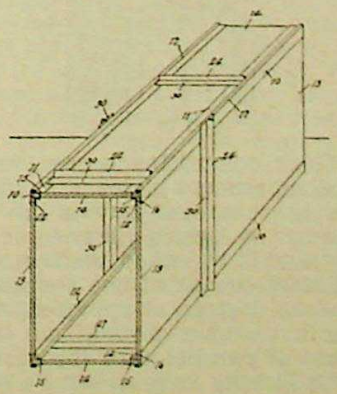
15. An improved process for isomerizing normal pentane which comprises subjecting the same in the liquid phase to the action of about 75% to about 150% by weight of aluminum chloride and about 0.5% to about 10% by weight of sulfur dioxide while at a temperature of from 30° to 100° F.

2,330,762
MOLDING MACHINE
Kenneth O. Tooker, Detroit, Mich., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 6, 1941, Serial No. 396,799
13 Claims. (Cl. 18—17)



2. A molding machine including two relatively movable supporting platens, cooperating interfittting mold elements carried by said platens for movement toward and from each other, one of said elements being recessed and the opposing element upon the opposite plate having a projection, said elements being so constructed and arranged that with said platens in close proximity said projection element extends into said recessed element, said recessed element being formed of a plurality of parts displaceable laterally relative to the direction of movement of said mold elements toward and from each other, and means movable with the platen carrying said recessed element to displace said parts laterally during an initial opening movement of said last-mentioned platen and prior to separation of said projection element from said recessed element.

2,330,763
AIR DUCT ASSEMBLY
Frank J. Townsend, Pelham Manor, N. Y.
Application December 8, 1942, Serial No. 468,282
11 Claims. (Cl. 138—78)



2. An air duct for heating, ventilating or air conditioning systems, comprising non-metallic

boards for the top, bottom and sides, in combination with metal slide corners adapted to lock the longitudinal edges of the boards, said corners each comprising complemental metal strips having return bends adapted to interlock when the boards are slid longitudinally with relation to each other, the strip on one of the boards being adapted to receive the other board between it and the edge of its own board.

11. A fitting for an air duct for heating, ventilating or air-conditioning systems, in which the top, bottom and sides of the duct are made of non-metallic boards, comprising a doubled metal strip with its main portion lying substantially in the plane of an edge of one of the boards and projecting to one side of said edge, one leg of said fitting being adapted to lie against one face of the board and the other leg being adapted to lie against the other face of the board, as and for the purposes described.

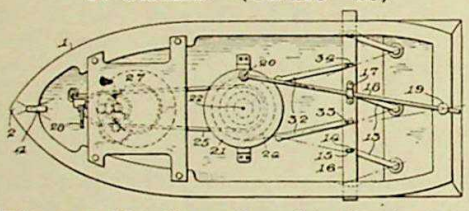
2,330,764

SHIP PROPULSION

John T. Troth, St. Davids, Pa.

Application January 14, 1942, Serial No. 426,669

10 Claims. (Cl. 115—28)



1. The combination of a ship having a longitudinally extending channel in its under surface, with a depending fixed partition in said channel to define a pair of parallel sub-divisions of said channel, angularly oscillatable flexible vanes mounted in said channel sub-divisions upon substantially vertical axes, and means to actuate said vanes simultaneously.

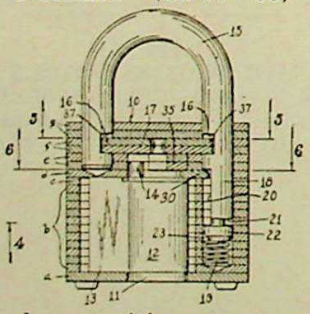
2,330,765

PADLOCK

Henry G. Voight, Hamden, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut

Application August 14, 1942, Serial No. 454,778

4 Claims. (Cl. 70—38)



1. A padlock comprising a case comprising a plurality of superposed plates, a shackle cooperating with the case and having one leg longer than the other, a locking element engaging the shackle to hold it in locked position, and means to prevent detachment of the shackle from the case when the former is unlocked, said means comprising a member pivoted on one of said plates to swing parallel with the surface thereof below the locking member, and a shoulder on the longer leg of the shackle with which said member engages.

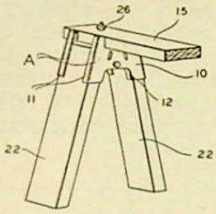
2,330,766

BUILDER'S SAFETY HORSE CLAMP

Emil A. Walstrom, St. Louis Park, Minn., assignor to Builders Safety Products, Inc., St. Louis Park, Minn., a corporation of Minnesota

Application July 13, 1942, Serial No. 450,822

6 Claims. (Cl. 304—5)



1. A builder's safety horse clamp means including a pair of metal plates, timber channels formed in the side of said plates, parallel reinforcing ribs adapted to form said channels in the surface of said plates, transverse reinforcing ribs connecting the inner of said ribs, slots formed in the upper edge of said plates adapted to form timber receiving recesses, a flanged shoulder at the base of said recesses for the top timber to rest on, a hole extending through each of said plates, and an adjustable clamping bolt extending through said holes and adapted to clamp the timbers held in said timber channels to lock said plates to said timbers, bolt and hook means extending downwardly from the top timber engaging said adjustable clamping bolt to lock said top timber to said clamp means, thereby forming a builder's safety bracket means for sawhorses.

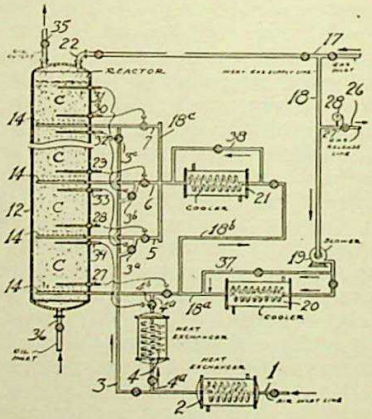
2,330,767

CATALYST REGENERATION

Albert B. Welty, Jr., Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 30, 1939, Serial No. 264,981

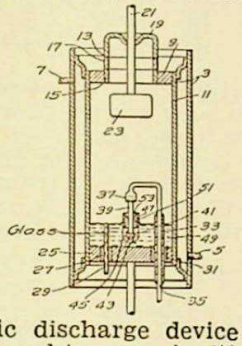
1 Claim. (Cl. 23—1)



In a process involving alternate reaction and regenerating periods in situ in which a stream of reactants is passed through a reaction zone containing a fixed mass of solid contact material for a predetermined period, the reaction process then interrupted and the contact material regenerated within said zone by burning combustible deposits formed thereon during the reaction period and wherein it is necessary to maintain the regenerating temperature within close limits to avoid impairing the effectiveness of said contact material; the improvement in the method of regenerating said contact material which comprises introducing an oxygen-containing gas at a plurality of spaced points within said chamber longitudinally of said mass to thereby cause re-

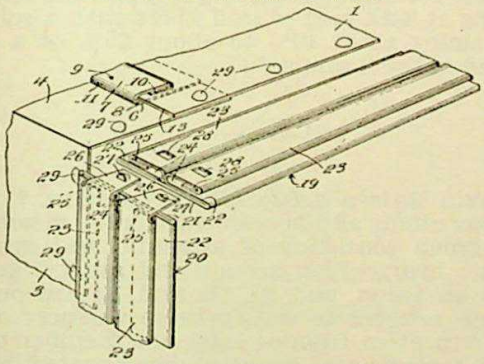
generation of said mass to take place simultaneously throughout the length of said contact mass and separately and independently controlling the oxygen concentration of the gas introduced at said spaced points to maintain the temperature below a desired maximum.

2,330,768
IGNITER
John E. White, Lilly, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1939, Serial No. 293,663
18 Claims. (Cl. 250—27.5)



1. An electric discharge device comprising a cathode of the pool type, an ignition electrode in contact with said cathode and a body of a substance which is wetted by said cathode encircling said electrode and spaced therefrom a distance of the order of .3 to 3 millimeters.

2,330,769
DUCT FOR AIR CONDITIONING SYSTEMS
Henry E. Wichner, Brookfield Township, Trumbull County, Ohio
Application September 3, 1941, Serial No. 409,427
1 Claim. (Cl. 285—201)

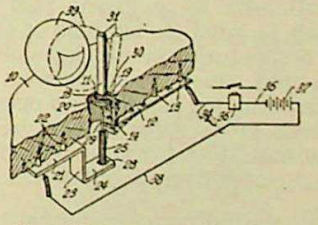


In a duct including sections, locking cleats for detachably securing the sections to each other, each cleat being formed from a strip folded reversely along its length to provide a body and a pair of inner ribs engaging the outer face of the body, outer ribs formed on the inner ribs and overlying the same to provide channels receiving the edge portions of the sections, tongues formed on the outer ribs and mounted in the channels in contact with the outer faces of the sections, substantially semicircular locking lugs formed on the sections and mounted in the channels in edge to edge contact with the tongues, the outer ribs of certain strips having slots adjacent the ends thereof, ears formed on the ends of the outer ribs of the remaining strips and mounted in the channels of companion strips between the tongues and outer ribs, and locking lugs formed on the ears and mounted in the slots for securing the cleats to each other.

2,330,770
CLIP CONSTRUCTION
William R. Wiley, Birmingham, Mich.
Original application September 5, 1939, Serial No. 293,336. Divided and this application January 22, 1942, Serial No. 427,707
2 Claims. (Cl. 24—73)

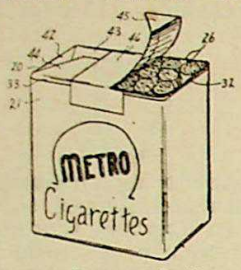
1. A clip for anchoring a channel-shaped molding having inturned flanges to a sheet metal panel having an aperture therein comprising a sheet metal strip bent to form a closed loop, said strip being bent to form indentations in opposite sides thereof whereby to provide a central portion having a dimension less than the portions above and below said central portion thereby providing a head portion adapted to be received within said molding strip and a prong portion adapted for insertion through the aperture in said panelling, said head portion including means for preventing collapse thereof when said prong portion is inserted into said aperture, outstruck lugs on said strip projecting inwardly of said loop and adapted to engage said strip adjacent the central portion of said clip to preclude collapse of the head portion thereof when said prong portion is inserted into the aperture in said panel.

2,330,771
CONTACT SWITCH FOR BALL ROLLING GAMES
Harry E. Williams and Lyndon A. Durant, Chicago, Ill.
Application October 25, 1941, Serial No. 416,444
2 Claims. (Cl. 200—52)



1. In a ball rolling game having an inclined playboard over which balls are rollable, the combination of a target and switch comprising a flexible supporting strip secured to the underside of the playboard and having a resilient portion extending upwardly into an opening formed in said playboard, said resilient portion of said strip having a horizontally disposed free end portion with an annular contact opening formed therein, a supporting bracket secured to the underside of said playboard and having an offset ledge disposed in axial alignment with the annular contact opening in said strip, a contact element extending vertically through the annular contact opening, a helical spring means arranged on the lower end of said contact element in axial alignment therewith and connecting the latter to said offset ledge, and ball engaging means at the upper end of said contact element to receive a thrust from a rolling ball, from any angular direction, to flex the helical spring means and urge said contact element into engagement with the horizontally disposed portion of said strip and flex the resilient portion of the latter, prolonging the electrical contact between the contact element and flexible strip.

2,330,772
CIGARETTE PACKAGE
Francis A. Wodal, Camden, and Joseph J. Wodal, West Collingswood, N. J.
Application June 12, 1941, Serial No. 397,754
7 Claims. (Cl. 229—51)



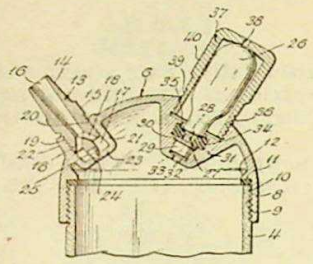
1. A cigarette package of the character described including a rectangular blank of two-ply material, one of said plies bearing a straight continuous line of perforations adjacent and paralleling one of the longer edges of said blank, said line of perforations extending uninterruptedly across the full width of said blank from one edge thereof to the other, said blank being folded around a group of cigarettes to form front, rear and side panels, with the aforesaid line of perforations substantially coinciding with the upper ends of cigarettes so that the material intermediate said line of perforations and the adjacent parallel edge of said blank provides an upper margin bordering said panels and projecting beyond the upper ends of said cigarettes, said margin being devoid of any traversing lines of perforations and being folded along the aforesaid line of perforations for the most part down over the upper ends of said cigarettes, the marginal portion bordering a side panel being folded down subsequent to the downfolding of the marginal portions bordering the front and rear panels to provide an integral readily manually-graspable pull-tab, whereby by outward pull exerted on said pull-tab as much or as little of the aforesaid margin as desired may be quickly and easily torn away from said panels to provide an even-edged rectangularly-shaped regular top opening having at least three of its sides coinciding with edges of said package top through which top opening said cigarettes may be extracted.

2,330,773
LUBRICANT
John C. Zimmer, Union, and Arnold J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 12, 1941
Serial No. 410.590
7 Claims. (Cl. 252—56)

1. A steam cylinder lubricant comprising a major proportion of mineral lubricating oil having a flash point at least as high as 500° F. and a viscosity of about 100 to 250 seconds Saybolt at 210° F., about 0.1–2.0% of polymerized ester of an acrylic acid, plus about 1 to 15% of acidless tallow.

2,330,774
MIXING DEVICE
Philip Alexander, Brooklyn, N. Y.
Application October 11, 1940, Serial No. 360,709
1 Claim. (Cl. 221—74)

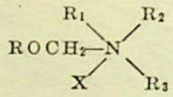
A cover for an aerating device, said cover having the form of a thin semi-spherical body and including an inwardly projecting hollow member forming an integral well in said cover having screw threads and a passage formed therein, said passage connecting the interior of said hollow member with the interior of said aerating device, a spout having screw threads meshing with the screw threads of said member, said



spout having a central conical passage formed therein, a valve body connected with said spout and adapted to close and open the passage formed in said hollow member, and at least one other passage formed in said spout and connecting the central passage formed in the spout with the interior of the aerating device.

2,330,775
NOVEL DYEING EFFECTS
Louis H. Bock, Huntingdon Valley, and Alva L. Houk, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application March 12, 1941, Serial No. 382,940
8 Claims. (Cl. 8—120)

1. A method of producing novel coloring effects in a textile fabric containing fibers selected from the class consisting of cellulose and regenerated cellulose fibers by altering the capacity for dyes of at least part of said fibers by increasing affinity thereof for acetate dyes and decreasing affinity thereof for direct dyes, which comprises impregnating at least part of said fibers with a solution containing about 10% to about 25% of a compound of the formula

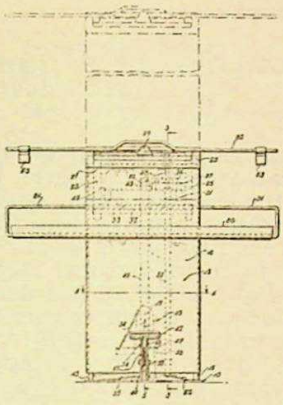


wherein R is a group which contains 7 to 14 carbon atoms and is selected from a member of the group consisting of aliphatic and cycloaliphatic hydrocarbon groups and aralkyl groups, X is an anion, and R_1, R_2 and R_3 are organic groups selected to satisfy three valences of the nitrogen atom from at least one member of the class consisting of trivalent unsaturated hydrocarbon chains which jointly with the nitrogen form a heterocycle, divalent saturated aliphatic chains which jointly with the nitrogen form a heterocycle, and monovalent cycloaliphatic, araliphatic, and aliphatic groups, heating the impregnated fibers to cause reaction between fibers and compound, and subsequently subjecting the treated fibers to the action of a dye.

2,330,776
COPYHOLDER
Edward L. Elliott, Arlington, Va., assignor to Federal Business Machines Corporation, Washington, D. C., a corporation of Delaware
Application November 20, 1940, Serial No. 366,463
6 Claims. (Cl. 120—29)

1. In a copy holder including, a stationary guide, a copy support mounted thereon for tele-

scoping movement, a piston rod attached to the copy support, and means acting through said piston rod for raising and lowering said copy support, a cylinder adapted to receive a part of said piston rod, an abutment on said guide, the end of said cylinder through which said piston



rod passes resting thereagainst, resilient means interposed intermediate a part of said guide and the other end of said cylinder, whereby said cylinder is held in position against said abutment and may be removed by compression of said resilient means.

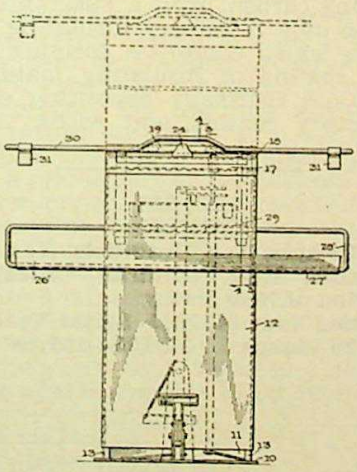
2,330,777

COPYHOLDER

Edward L. Elliott, Woodside Park, Md., assignor to Federal Business Machines Corporation, Washington, D. C., a corporation of Delaware

Original application November 20, 1940, Serial No. 366,463. Divided and this application November 23, 1942, Serial No. 466,632

8 Claims. (Cl. 24—66)



1. In a copy holder, a copy support, a releasable clamp coacting therewith for holding copy thereagainst, means constituting a part of said clamp for aligning copy gripped thereby, and means extending laterally of said copy support, said means including copy grippers located laterally beyond said copy support, the copy grippers also including aligning means in the same plane as the aligning means of the main clamp, whereby copy wider than said copy support may be held in aligned position thereby.

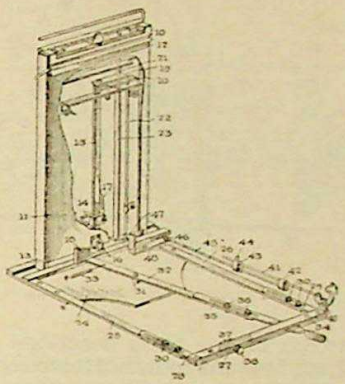
2,330,778

COPYHOLDER

Edward L. Elliott, Arlington, Va., assignor to Federal Business Machines Corporation, Washington, D. C., a corporation of Delaware

Application January 22, 1943, Serial No. 473,221

9 Claims. (Cl. 120—29)



1. In a copy holder having a copy support and an associated line guide, adjustable one relative to the other in a step-by-step manner, a base to which said copy holder is secured in vertical position, a sectional lever for effecting such relative adjustment, said lever being mounted to extend beneath a machine with which said copy holder is used, and means permitting the extension of said sectional lever to project beyond the forward edge of such machine.

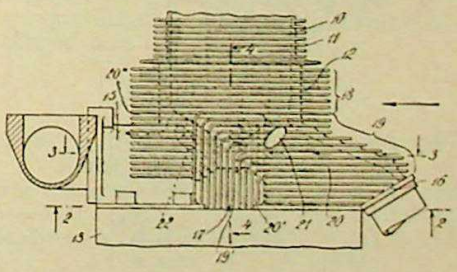
2,330,779

AIR-COOLED ENGINE CYLINDER

Alfred T. Gregory and Chester C. De Pew, Farmingdale, N. Y., assignors to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y., a corporation of Maryland

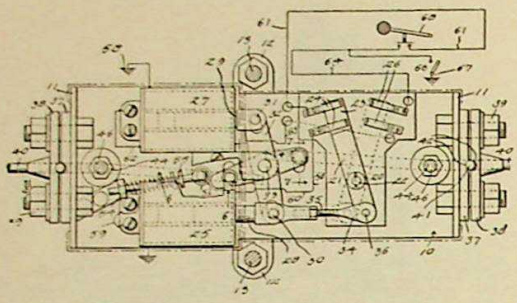
Application July 24, 1940, Serial No. 347,162

9 Claims. (Cl. 257—261)



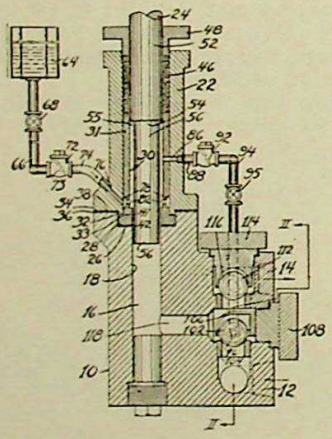
1. An air-cooled cylinder having axially spaced lateral radiating fins arranged at the air intake side of the engine substantially in the general direction of flow of the cooling air, spaced radiating fins extending transversely across the top of the cylinder from one side thereof to the other at an angle to the general direction of flow of the air and connected to said lateral fins to form substantially continuous open edged channels between them, lateral radiating fins on the cooling air discharge side of the cylinder and connected to said transverse fins to form extensions of said channels, and means closing the open edges of at least the channels between said transverse fins to cause the cooling air to flow from between the fins on said intake side across the top of the cylinder and rearwardly between the fins on the discharge side of said cylinder.

2,330,780
TROLLEY DERAILER
William C. Klein, Allentown, Pa.
Application October 21, 1942, Serial No. 462,855
14 Claims. (Cl. 246—115)



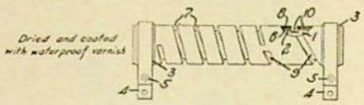
1. Mechanism of the class described comprising a signal, and means to derail a trolley element automatically through actuation of the signal.

2,330,781
CONVEYING FLUIDS CONTAINING SOLIDS
George J. Langmyhr, Sarnia, Ontario, Canada, and Jefferson M. Sharp, Oil City, Pa.; said Langmyhr assignor to Standard Oil Development Company, a corporation of Delaware; said Sharp assignor to National Transit Pump & Machine Company, a corporation of Pennsylvania
Application May 28, 1941, Serial No. 395,560
5 Claims. (Cl. 103—204)



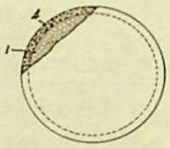
1. A pump including an elongated cylinder provided with two sections of different diameter, the smaller diameter cylinder section forming a pumping chamber having an inlet and an outlet, an elongated single plunger having corresponding piston portions of different diameters and adapted to reciprocate in said cylinder, a liner for the larger diameter cylinder section, said liner being spaced from the smaller diameter piston portion during reciprocation of said plunger, means for supplying liquid to the space between said liner and said smaller diameter piston portion, said space communicating with said pumping chamber and means whereby liquid in said space is positively maintained both on the intake and discharge strokes at a pressure higher than that in the pumping chamber.

2,330,782
METHOD OF ADJUSTING AND SEALING RESISTANCE ELEMENTS
Oliver James Morelock, Short Hills, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application July 1, 1942, Serial No. 449,299
9 Claims. (Cl. 201—75)



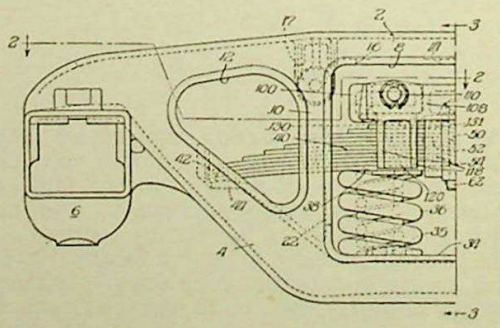
3. In the adjustment of the effective resistance of a carbon-coated ceramic resistor blank to a desired value, the process which comprises applying to the resistor blank a waterproof coating, cutting through the waterproof coating and carbon coating to increase the effective resistance to substantially less than the desired value, applying a second waterproof coating to the cut blank, cutting through the several coatings to increase the effective resistance to approximately the desired value, and applying a waterproof coating to the blank.

2,330,783
RESISTANCE ELEMENT
Oliver James Morelock, Short Hills, and Harry W. Houck, Livingston, N. J., assignors to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application July 1, 1942, Serial No. 449,300
10 Claims. (Cl. 201—75)



1. In the manufacture of resistance elements by depositing carbon upon a substantially nonporous base of a refractory insulating material, the process which comprises forming a porous refractory coating of insulating material upon said base, and thermally depositing carbon on said refractory coating and within the pores thereof.

2,330,784
TRUCK
Alfred H. Oelkers, New Braunfels, Tex., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 14, 1941, Serial No. 398,032
20 Claims. (Cl. 105—197.1)



6. In a railway car truck of quick wheel change type, a side frame comprising a bolster opening,

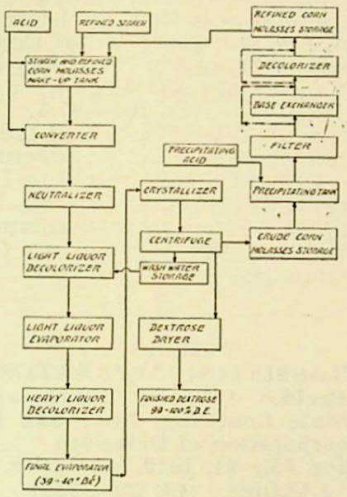
a leaf spring assembly supported from said frame in said opening, a bolster supported on said assembly, and spaced jaw means on said bolster abutting respectively inboard and outboard sides of said assembly, one of said jaw means being removable to permit removal of said bolster from said opening during a quick wheel change.

2,330,785

METHOD OF MAKING DEXTROSE

James F. Walsh, Yonkers, N. Y., assignor to American Maize-Products Company, a corporation of Maine

Application September 25, 1940, Serial No. 358,273
3 Claims. (Cl. 127—40)



1. In making crystallized dextrose, the method which comprises converting starch in the presence of water and an acid adapted to form a freely soluble salt with calcium, neutralizing the resulting conversion liquor to a pH of about 4 to 5.5 with an acid-neutralizing calcium compound, separating the material coagulated on neutralization, decolorizing the resulting clarified liquor and evaporating the liquor to a syrup of high concentration permitting the crystallization on cooling of a major part of the dextrose contained in the liquor, crystallizing dextrose from the said syrup, separating the crystallized dextrose from the mother liquor remaining as molasses, treating the separated molasses with sulfuric acid so as to remove a large part of the calcium from the molasses as precipitated calcium sulfate, separating the molasses from the precipitate, then diluting the molasses, and subjecting the diluted molasses to acid conversion to produce additional dextrose.

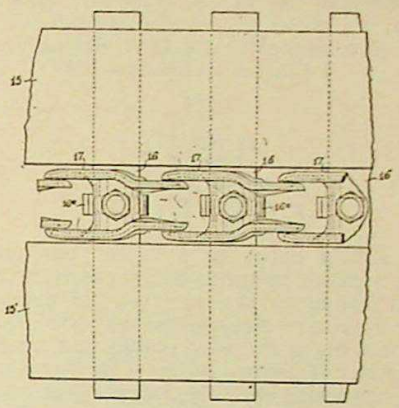
2,330,786

GUIDE FOR ENDLESS TRACKS

Edwin L. Allen and Harold B. Muster, Cleveland Heights, Ohio, assignors to Rudolph I. Schonitzer, Shaker Heights, Ohio

Application September 3, 1941, Serial No. 409,394
14 Claims. (Cl. 305—10)

1. In a flexible endless self-laying track movable in a path and having crossbars spaced along said track transversely to said path of movement, abutments on said crossbars generally parallel to said path and normally in alinement, and substantially rigid guide lugs fixed on said crossbars engaging said abutments, the guide lug on each crossbar overlapping the lugs on adjacent bars with slight clearance, whereby said



lugs and abutments maintain said track in alinement resisting localized forces tending to move a portion of said track out of said path.

2,330,787

ISOMERIZATION OF NORMAL PARAFFINS

Stanley Francis Birch and John Henry Beynon, Sunbury-on-Thames, England, assignors, by mesne assignments, to Anglo-Iranian Oil Company Limited, London, England, a company of Great Britain

No Drawing. Application May 13, 1940, Serial No. 334,982. In Great Britain March 16, 1939
2 Claims. (Cl. 260—683.5)

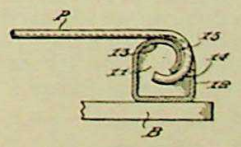
1. A process of producing isoparaffins, particularly isobutane and isopentane, by isomerization of the normal paraffin, consisting in contacting the normal paraffin with aluminium chloride as catalyst in the presence of anhydrous ferric chloride as a catalytic promoter in a proportion of the order of from 1.75% to 20% by weight of the total aluminium chloride, at an elevated temperature in the range of about 50°–200° C., the isoparaffinic product being separated from the catalyst and the promoter.

2,330,788

PIVOT MOUNTING FOR PINS OF BROOCHES AND THE LIKE

Quirino Chiappinelli, Providence, R. I., assignor of one-half to M. E. Proctor, New Haven, Conn.

Application November 19, 1942, Serial No. 466,181
5 Claims. (Cl. 24—160)



4. A pivot mounting for an open eye of a bar pin comprising a U-shaped member for receiving the eye between the opposed sides thereof, a tongue extending from the base of the U-shaped member and terminating in a curved end for extending through the opening in the eye and terminating within the eye, and a second tongue extending from the base and terminating in spaced relation to said curved end of the first tongue.

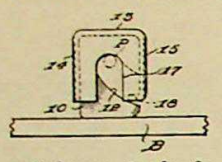
2,330,789

SAFETY CATCH FOR BAR PINS OF BROOCHES AND THE LIKE

Quirino Chiappinelli, Providence, R. I., assignor of one-half to M. E. Proctor, New Haven, Conn.

Application November 19, 1942, Serial No. 466,182

5 Claims. (Cl. 24—158)



1. A safety catch or lock for bar pins comprising a catch member of generally rectangular form in side elevation, a curved pin receiving slot in said member opening through one edge thereof and having a rounded closed end, and a locking member of generally box-like formation having an open end slidably mounted on said catch member, opposed side walls of said locking member having laterally alined slots opening through the open end of the locking member, the open ends of said last slots communicating with said first slot in one position of said locking member on said catch member, and the closed ends of all of said slots being in lateral registry in another position of said locking member on said catch member.

2,330,790

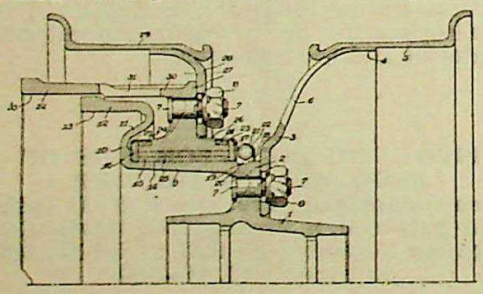
DIFFERENTIAL WHEEL

Carolus L. Eksergian, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 18, 1940, Serial No. 346,077

5 Claims. (Cl. 188—18)

1. A dual wheel assembly comprising a hub having an integral radial flange, the periphery of said flange being integrally extended by an axially extending portion forming an annular bearing seat and the inner end of said axially extending portion being integrally formed with a brake drum, a second hub rotatably mounted on said seat and having a radial hub flange integral



therewith and a second brake drum secured to said last-named flange, a wheel demountably secured to each radial flange and means accessible from the outboard side for securing each wheel to its respective radial flange.

2,330,791

METHOD FOR THE PREPARATION OF ALPHA NAPHTHOSELENAZOLES

Edmund B. Middleton, Woodbridge, and George A. Dawson, Stelton, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 3, 1940, Serial No. 338,556

7 Claims. (Cl. 260—298)

1. In a method of making a 2-alkyl alpha-naphthoselenazole, the series of steps which comprises (1) reacting beta naphthylamine in an acid solvent medium with copper selenocyanate, (2) heating the reaction mixture in an acid medium, (3) neutralizing the resultant reaction mixture with ammonia and separating the precipitate, (4) heating said precipitate with a strong alkaline hydrolysing agent, (5) treating the hydrolysis product with an oxidizing agent and separating the precipitate, (6) heating said precipitate with a lower aliphatic carboxylic acid anhydride in the presence of nascent hydrogen and separating the resultant 2-alkyl alpha naphthoselenazole.

2,330,792

METHOD OF TREATING TALL OIL

Anthony F. Oliver and Robert C. Palmer, Pensacola, Fla., assignors to Newport Industries, Inc., Pensacola, Fla., a corporation of Delaware

No Drawing. Application November 15, 1939, Serial No. 304,581

4 Claims. (Cl. 260—97.5)

1. A method of stabilizing tall oil including filtering the tall oil through an adsorbent material, neutralizing with an alkali from 8 to 18 per cent of the total acidity of said tall oil, and heat-treating said tall oil under non-decomposing conditions at between 260° and 325° C. for from 8 hours to 10 minutes.

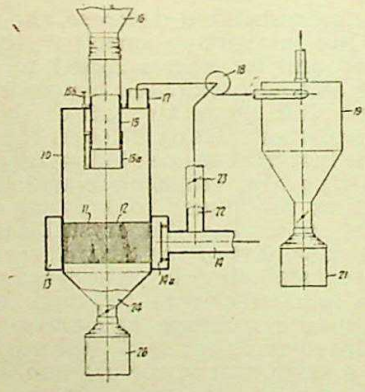
2,330,793

CLASSIFYING APPARATUS

David D. Peebles, Berkeley, Calif., assignor to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware

Application July 31, 1940, Serial No. 348,980

3 Claims. (Cl. 209—139)



1. In classifying apparatus, a generally upright classifying chamber, a substantially continuous foraminous wall extending about the periphery of said chamber, for introducing gas into the chamber in a region located intermediate the upper and lower ends of said chamber, an annular conduit enclosing said foraminous wall, a gas inlet conduit opening into said annular conduit, a baffle positioned within said annular conduit in front of said gas inlet conduit, a material introducing conduit extending vertically downward into said chamber for introduction of material to be classified, said material introducing conduit having a downwardly directed discharge end located intermediate the region of introduction of gas and the upper end of the chamber, whereby one fraction of the material

being classified is carried upwardly with an upwardly moving column of gas and another fraction moved downwardly toward the lower end of the chamber, and means at the lower end of the chamber for removing the last named fraction.

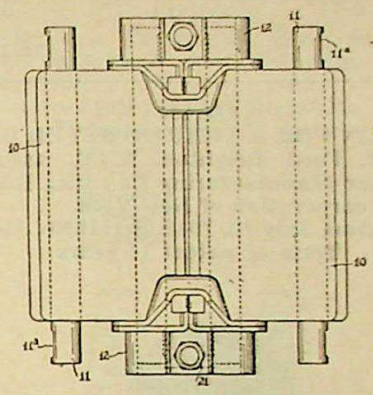
2,330,794

CONNECTING AND GUIDING MEANS FOR ENDLESS TRACKS AND THE LIKE

Rudolph I. Schonitzer, Shaker Heights, and Edwin L. Allen and Harold B. Muster, Cleveland Heights, Ohio; said Allen and said Muster assignors to said Schonitzer

Application February 14, 1942, Serial No. 430,986
10 Claims. (Cl. 305—10)

1. In the combination of an endless track composed of tread blocks having link pin crossbars and wherein the track travels over sprocket or bogie wheels, a combined crossbar connector and track guide comprising a sheet metal member having a link portion for connecting crossbars of adjacent tread blocks, said member having a portion bent inwardly toward the track to provide a guide portion, and a reinforcing plate member

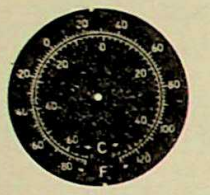


in the form of a rib lying between adjacent tread blocks and secured across the corner where said bend occurs.

DESIGNS

SEPTEMBER 28, 1943

136,400
DESIGN FOR A THERMOMETER DIAL
George E. Ford, Brighton, N. Y., assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y., a corporation of New York
Application July 19, 1943, Serial No. 110,705
Term of patent 14 years

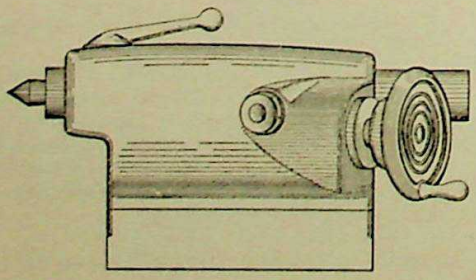


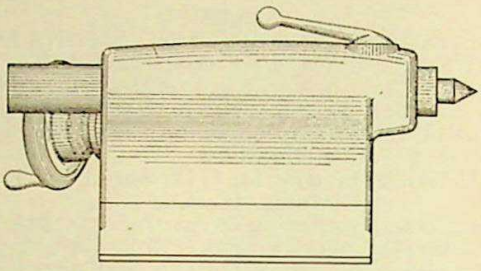
The ornamental design for a thermometer dial, as shown.

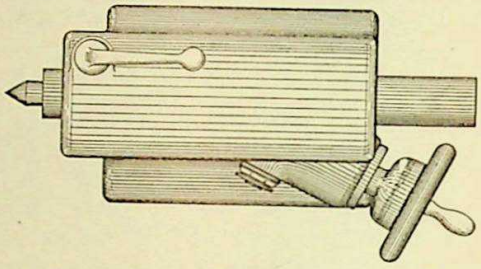
136,401
DESIGN FOR A FINGER RING
Abraham Sager, Chicago, Ill.
Application July 19, 1943, Serial No. 110,680
Term of patent 3½ years

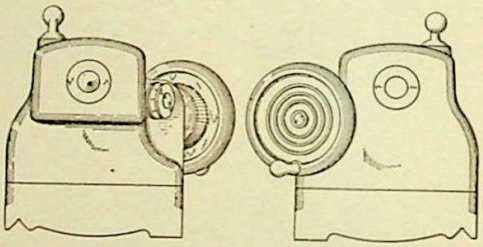
The ornamental design for a finger ring, as shown and described.

136,402
DESIGN FOR A TAILSTOCK
Jesse Srofe, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application March 16, 1943, Serial No. 109,769
Term of patent 14 years



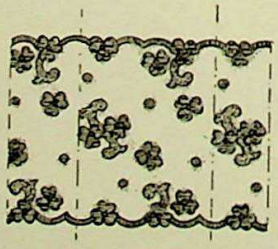






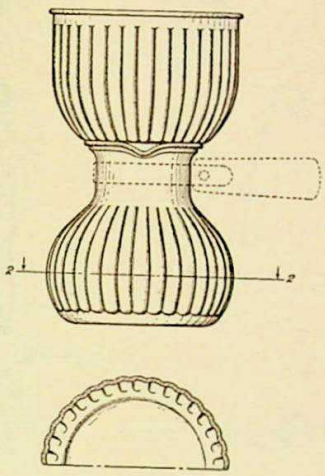
The ornamental design for a tailstock, substantially as shown.

136,403
DESIGN FOR AN EMBROIDERED LACE
Jack Wiener, New York, N. Y.
Application August 21, 1943, Serial No. 110,972
Term of patent 3½ years



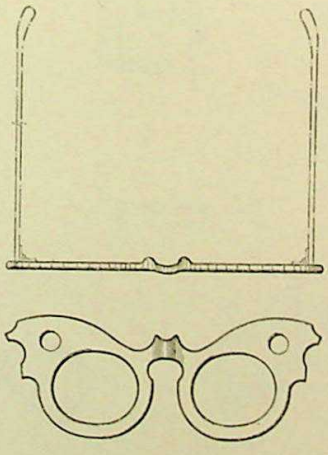
The ornamental design for an embroidered lace substantially as shown and described.

136,404
DESIGN FOR A COMBINED COFFEE AND TEA MAKER
Frank E. Wolcott, West Hartford, Conn., assignor to The Silex Company, Hartford, Conn., a corporation of Connecticut
Application February 18, 1943, Serial No. 109,575
Term of patent 14 years



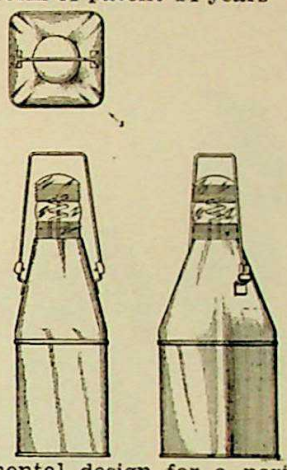
The ornamental design for a combined coffee and tea maker, substantially as shown and described.

136,405
DESIGN FOR AN EYEGLASS FRAME
Juliette Bendix and Edouard Halouze, New York, N. Y.
Application June 15, 1943, Serial No. 110,460
Term of patent 7 years



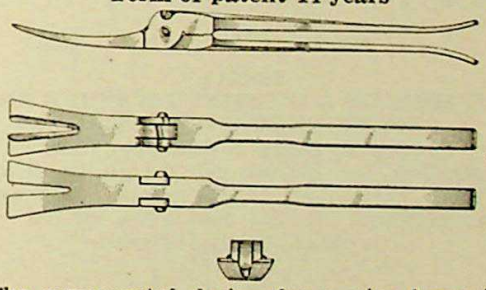
The ornamental design for an eyeglass frame, substantially as shown.

136,406
DESIGN FOR A PORTABLE AERODROME LIGHT
Harold A. Cline, Cincinnati, Ohio, assignor of one-half to John B. Cottell, Indian Hill, Cincinnati, Ohio
Application April 22, 1943, Serial No. 110,018
Term of patent 14 years



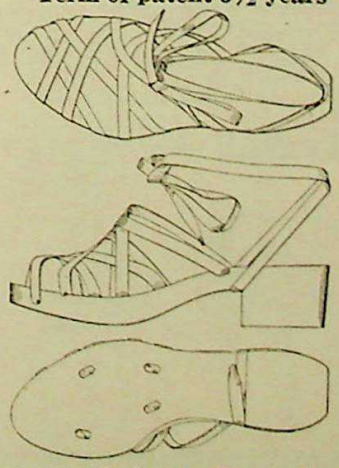
The ornamental design for a portable aerodrome light, as shown and described.

136,407
DESIGN FOR A WIRE FENCE TOOL
Abner D. Duncan, Ponca City, Okla.
Application April 22, 1943, Serial No. 110,017
Term of patent 14 years



The ornamental design for a wire fence tool, as shown.

136,408
DESIGN FOR A SHOE
George A. Gleason, Lynn, Mass.
Application May 14, 1943, Serial No. 110,207
Term of patent 3½ years

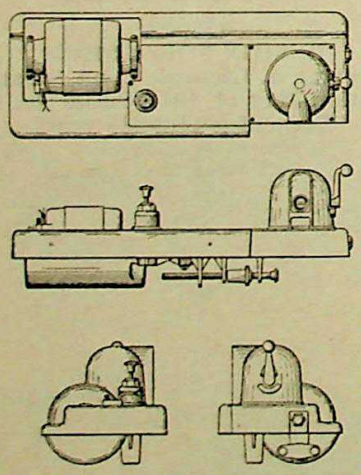


The ornamental design for a shoe, substantially as shown and described.

136,409
DESIGN FOR A HOUSE COAT
Lenore Surenson, Chicago, Ill., assignor to Walter M. Gotsch Company, Chicago, Ill., a corporation of Illinois
Application August 10, 1943, Serial No. 110,878
Term of patent 3½ years

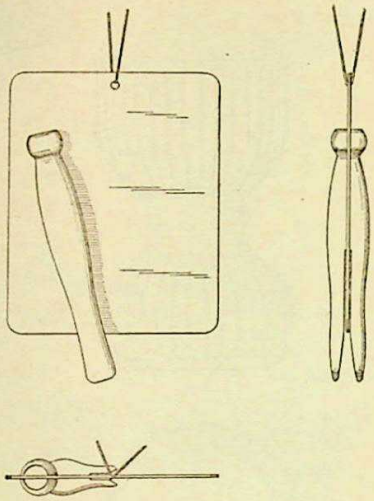
The ornamental design for a house coat, substantially as shown and described.

136,410
DESIGN FOR A COMBINED WASHER AND WRINGER DRIVE HOUSING
Merlin M. Jackson, San Jose, Calif.
Substituted for abandoned design application Serial No. 107,742, July 29, 1942. This application March 18, 1943, Serial No. 109,776
Term of patent 3½ years



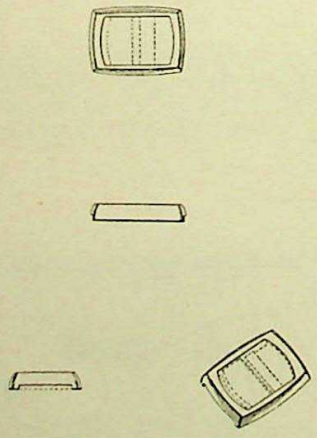
The ornamental design for a combined washer and wringer drive housing, substantially as shown and described.

136,411
DESIGN FOR A TAG
Mervin Levine and Jesse Levine, New York, N. Y.
Application July 24, 1943, Serial No. 110,742
Term of patent 14 years



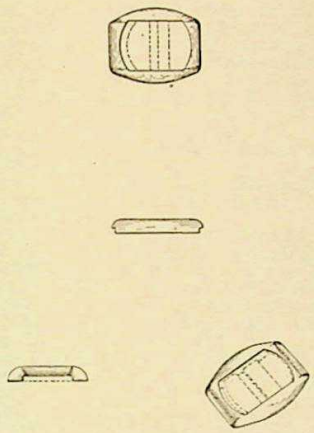
The ornamental design for a tag, substantially as shown.

136,412
DESIGN FOR A BUCKLE
Paul W. White, Fort Lauderdale, Fla., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application May 3, 1943, Serial No. 110,104
Term of patent 14 years



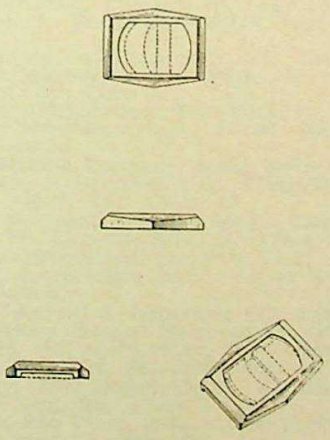
The ornamental design for a buckle, substantially as shown and described.

136,413
DESIGN FOR A BUCKLE
Paul W. White, Fort Lauderdale, Fla., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application May 3, 1943, Serial No. 110,105
Term of patent 14 years



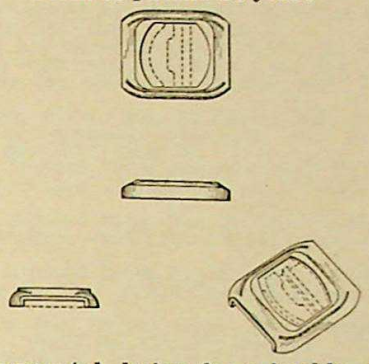
The ornamental design for a buckle, substantially as shown and described.

136,414
DESIGN FOR A BUCKLE
Paul W. White, Fort Lauderdale, Fla., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application May 3, 1943, Serial No. 110,106
Term of patent 14 years



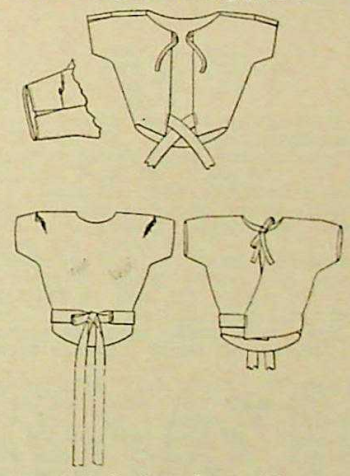
The ornamental design for a buckle, substantially as shown and described.

136,415
DESIGN FOR A BUCKLE
Paul W. White, Fort Lauderdale, Fla., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application May 3, 1943, Serial No. 110,107
Term of patent 14 years



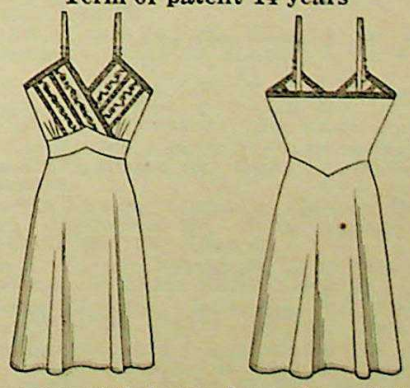
The ornamental design for a buckle, substantially as shown and described.

136,416
DESIGN FOR A BLOUSE
Helene Pons, New York, N. Y.
Application July 10, 1943, Serial No. 110,649
Term of patent 3½ years



The ornamental design for a blouse, substantially as shown and described.

136,417
DESIGN FOR A SLIP
Semon Wolf, New York, N. Y.
Application July 24, 1943, Serial No. 110,740
Term of patent 14 years



The ornamental design for a slip, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Addressograph-Multigraph Corporation, Cleveland, Ohio. Ferrous metal with a flexible non-metallic coating. Serial No. 461,127; Sept. 28. Class 14.

American Beauty Macaroni Co., The. (See Kansas City Macaroni & Importing Co.)

Baribeau & Fils. (See Baribeau, Herve.)

Baribeau, Herve, doing business under the name of Baribeau & Fils, Levis, Canada. Cleaning and scouring powder. Serial No. 460,750; Sept. 28. Class 4.

Beaumont Company. (See Grove Laboratories, Inc.)

Bing Brothers, Inc., Brooklyn, N. Y. Lupulin, hop extracts, malt extracts, etc. Serial No. 462,104; Sept. 28. Class 48.

Chicago Vitreous Enamel Product Co., Cicero, Ill. Ceramic-type protective coating. Serial No. 461,013; Sept. 28. Class 16.

Cine Service Company, Dallas, Tex. Magic lantern slides and positive projection slides. Serial No. 461,914; Sept. 28. Class 26.

Clerc, Leonard F., doing business as Clercold, Chicago, Ill. Refrigerators and refrigerated shipping containers. Serial Nos. 458,804–5; Sept. 28. Class 31.

Clerc, Leonard F., doing business as Clercold, Chicago, Ill. Refrigerators and refrigerated shipping containers. Serial Nos. 458,807–9; Sept. 28. Class 31.

Clercold. (See Clerc, Leonard F.)

Club Aluminum Products Co., Chicago, Ill. Aluminum cleaner, general cleaner, silver polish, etc. Serial No. 461,545; Sept. 28. Class 4.

D. S. Publishing Co., Inc., New York, N. Y. Monthly magazine. Serial No. 461,042; Sept. 28. Class 38.

Davidson Manufacturing Corporation, Chicago, Ill. Solution used for making a lithographic plate photosensitive. Serial No. 462,362; Sept. 28. Class 6.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic lenses. Serial No. 462,471; Sept. 28. Class 26.

Edroy Products Company, New York, N. Y. Instrument for calculating distances on aerial photographs. Serial No. 462,093; Sept. 28. Class 26.

Ehlengerger, George, & Co., Inc. (Fla.), Miami, Fla. Eggs. Serial No. 462,308; Sept. 28. Class 46.

Felton Grimwade & Duerdins Proprietary Limited, Melbourne, Victoria, Australia. Effervescent preparations of medicinal glucose. Serial No. 461,435; Sept. 28. Class 6.

Fitzpatrick Bros., Inc., Chicago, Ill. Soap and cleaning preparations. Serial No. 460,521; Sept. 28. Class 4.

Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. Serial No. 461,716; Sept. 28. Class 6.

Grove Laboratories, Inc., The, doing business under the name of Beaumont Company. Pile suppositories. Serial No. 461,870; Sept. 28. Class 6.

Hamilton Manufacturing Company, Two Rivers, Wis., and Rahway, N. J. Drafting room furniture. Serial No. 461,789; Sept. 28. Class 26.

Hogue, F. H., Company, doing business as F. H. Hogue, Yuma, Ariz., and Kent, Wash. Fresh vegetables. Serial No. 460,153; Sept. 28. Class 46.

Hospital Liquids, Inc., Chicago, Ill. Parenteral administration devices. Serial No. 462,712; Sept. 28. Class 44.

Huriklene Chemical Co., Bennington, Vt. Liquid cleaner for windows, glassware, silverware, etc. Serial No. 462,017; Sept. 28. Class 4.

Intaglio Service Corporation, New York, N. Y. Prints, particularly photoengravings. Serial No. 456,422; Sept. 28. Class 38.

International Milling Company, doing business as Wells Flour Mills Co., Wilmington, Del. Wheat flour. Serial No. 461,793; Sept. 28. Class 46.

Iowa Canning Company, Vinton, Iowa. Canned vegetables. Serial No. 461,819; Sept. 28. Class 46.

Johnson-March Corporation, The, New York, N. Y. Composition for dustproofing coal. Serial No. 461,659; Sept. 28. Class 6.

Kansas City Macaroni & Importing Co., doing business as The American Beauty Macaroni Co., Kansas City and St. Louis, Mo., and Denver, Colo. Macaroni. Serial No. 461,253; Sept. 28. Class 46.

Kelco Company, San Diego, Calif. Alginates. Serial No. 453,548; Sept. 28. Class 6.

Kelco Company, San Diego, Calif. Algin product. Serial No. 462,316; Sept. 28. Class 16.

Kluger, a limited partnership, New York, N. Y. Rayon piece goods. Serial No. 461,855; Sept. 28. Class 42.

Kremola Company, Inc., Chicago, Ill. Freckle ointment. Serial No. 461,612; Sept. 28. Class 6.

Marvlo Fabrics, Inc., New York, N. Y. Piece goods. Serial No. 461,491; Sept. 28. Class 42.

Masury-Young Company, Charlestown and Boston, Mass. Liquid floor sealing compound. Serial No. 457,878; Sept. 28. Class 16.

Mikesell, Freeman S., Chetek, Wis. Artificial bait. Serial No. 462,587; Sept. 28. Class 22.

Mine Safety Appliances Company, Pittsburgh, Pa. Dust, fume and mist sampling apparatus, gas detectors, manimeters, etc. Serial No. 441,830; Sept. 28. Class 26.

Myers, Harry, & Co., Inc., Baltimore, Md. Men's and boys' suits, trousers, overcoats, etc. Serial No. 462,390; Sept. 28. Class 39.

Nancy Ann Dressed Dolls, San Francisco, Calif. Dolls and dolls' clothes. Serial Nos. 460,333–40; Sept. 28. Class 22.

Nancy Ann Dressed Dolls, San Francisco, Calif. Dolls and doll clothes. Serial No. 460,341; Sept. 28. Class 22.

Nancy Ann Dressed Dolls, San Francisco, Calif. Dolls and dolls' clothes. Serial Nos. 460,342–4; Sept. 28. Class 22.

New Wrinkle, Inc., Dayton, Ohio. Paints, enamels, and varnishes. Serial No. 453,680; Sept. 28. Class 16.

Northern Ordnance Incorporated, Minneapolis, Minn. Medicament. Serial No. 459,796; Sept. 28. Class 6.

One-Two-Three Company, Inc., New York, N. Y. Flavoring concentrates for beverages. Serial No. 453,518; Sept. 28. Class 45.

Pedigree Fabrics, Inc., New York, N. Y. Rayon piece goods. Serial No. 461,053; Sept. 28. Class 42.

Pennsylvania Rubber Company, Jeannette, Pa. Shuttlecocks. Serial No. 461,876; Sept. 28. Class 22.

Pleasant Valley Wine Company, The, Rheims, N. Y. Wines. Serial No. 455,734; Sept. 28. Class 47.

Price, Oscar R., doing business as Varitex Company, New York, N. Y. Seam binding. Serial No. 457,155; Sept. 28. Class 40.

Quality Macaroni Company, St. Paul, Minn. Macaroni. Serial No. 462,295; Sept. 28. Class 46.

Rhinopto Company, Dallas, Tex. Ear drops. Serial No. 462,029; Sept. 28. Class 6.

Ridenour, Peter D., doing business as The P. D. Ridenour Sales Co., Chicago, Ill. Powdered dehydrated vegetables, dehydrated spinach flakes, and soybean flour. Serial No. 461,570; Sept. 28. Class 46.

Ridenour, P. D., Sales Co. (See Ridenour, Peter D.)

Robot Laundry Machinery Corporation of California, Los Angeles, Calif. Laundry machinery. Serial No. 459,635; Sept. 28. Class 24.

Rose-Derry Company, Newton, Mass. Combination mattress with wetproof lining, pillow, and coverlet. Serial Nos. 462,723–4; Sept. 28. Class 32.

Safeway Stores, Inc., of Nevada, also doing business as Table Products Company, Reno, Nev., and Oakland, Calif. Canned salmon. Serial No. 454,841; Sept. 28. Class 46.

Saks & Company, New York, N. Y. Women's hosiery. Serial No. 462,381; Sept. 28. Class 39.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Lotion for bunions. Serial No. 460,769; Sept. 28. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Crib sheets, pillowcases, quilts, etc. Serial No. 448,661; Sept. 28. Class 42.

Sears, Roebuck and Co., Chicago, Ill. Shoes. Serial No. 461,641; Sept. 28. Class 39.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Pharmaceutical preparations. Serial No. 462,126; Sept. 28. Class 6.

Smith, Myron Ainsworth, Providence, R. I. Dog food. Serial No. 455,212; Sept. 28. Class 46.

Soya Corporation of America, New York, N. Y. Soya bean flour and soya bean grits. Serial No. 461,962; Sept. 28. Class 46.

Speare's, Alden, Sons Co., The, Cambridge, Mass. Cutting lubricant. Serial No. 462,237; Sept. 28. Class 15.

Stanley, John T., Co., Inc., New York, N. Y. Soap. Serial No. 462,149; Sept. 28. Class 4.

Standard Insulation Company. (See Steele, Dwight L.)

Steckler, Nat P., New York, N. Y. Suspensories, abdominal supporters, trusses, etc. Serial No. 446,251; Sept. 28. Class 44.

Steele, Dwight L., doing business as Standard Insulation Company, Hagerstown, Md. Storm windows. Serial No. 460,481; Sept. 28. Class 12.

Stern, Louis, Company, Providence, R. I. Cotton fabric watch straps. Serial No. 460,912; Sept. 28. Class 40.

Stouck-Reaser Company, Gettysburg, Pa. Red cedar shingles. Serial No. 451,123; Sept. 28. Class 12.

Sweets Company of America, Incorporated, The, Hoboken, N. J. Powder consisting of dried milk, cocoa, and other ingredients. Serial No. 461,723; Sept. 23. Class 46.

Table Products Company. (See Safeway Stores, Inc., of Nevada.)

Towncliffe, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. Serial No. 462,349; Sept. 28. Class 39.

Varitex Company. (See Price, Oscar R.)

Verba Wesley Carmack, Fort Custer, Mich. Series of cartoons. Serial No. 457,946; Sept. 28. Class 38.

Wallerstein Company, Inc., New York, N. Y. Enzymatic material. Serial No. 461,620; Sept. 28. Class 6.

Wallerstein Company, Inc., New York, N. Y. Enzymatic preparation. Serial No. 462,062; Sept. 28. Class 6.

Wells Flour Mills Co. (See International Milling Company.)

Weston International Corp., New York, N. Y. Pyrophoric pipe, cigarette, and cigar lighters. Serial No. 452,137; Sept. 28. Class 34.

Wolfenden, R., & Sons, Attleboro, Mass. Yarn. Serial No. 461,126; Sept. 28. Class 43.

LIST OF REGISTRANTS OF TRADE-MARKS

Adams, George W., C. E. Heitman, N. E. Ritchie, W. S. Booth, F. L. Jandron, and J. E. Fernald, trustees under the will of M. B. G. Eddy, deceased, Boston, Mass. Printed books and publications. 403,487; Sept. 28; Serial No. 458,300; published Mar. 30, 1943. Class 38.

Ahrens Publishing Company, Inc., New York, N. Y., and Chicago, Ill., assignor to Restaurant Publications, Inc. Periodical. 403,567; Sept. 28. Class 38.

Ahrens Publishing Company, Inc., New York, N. Y., and Chicago, Ill. Periodical. 403,568; Sept. 28.

Aircraft Screw Products Company, Inc., Long Island City, N. Y. Magazine. 403,511; Sept. 28; Serial No. 459,821; published July 13, 1943. Class 38.

Aktiebolaget Facit, Atvidaberg, Sweden. Typewriters, cash registers, check protectors, tabulating machines, etc. 403,455; Sept. 28; Serial No. 452,917; published June 29, 1943. Class 23.

Alloway Brothers, to Alloway Brothers Company, Nashville, Tenn., successor. Butter, live and dress poultry, and eggs. 178,339; renewed Jan. 8, 1944.

American Arch Company, Inc., New York, N. Y. Fire and other brick of substantially uniform dimensions. 174,558; renewed Oct. 23, 1943.

American Furniture Novelty Co., Chicago, Ill. Furniture. 403,541; Sept. 28; Serial No. 460,749; published July 20, 1943. Class 32.

American Lead Pencil Company, Hoboken, N. J. Mechanical pencils and fountain pens. 403,534; Sept. 28; Serial No. 460,607; published July 20, 1943. Class 37.

American Manufacturing Company. (See Markt & Hammacher Company.)

American Tool Products, Inc., Los Angeles, Calif. Bucking bars, rivet sets, dimpling sets, etc. 403,464; Sept. 28; Serial No. 455,698; published July 6, 1943. Class 23.

Ams, Max, Inc., New York, N. Y. Bottled prune concentrate. 403,485; Sept. 28; Serial No. 458,260; published July 20, 1943. Class 48.

Anderson, Clayton & Co., Houston, Tex. Raw cotton. 175,472; renewed Nov. 6, 1943.

Andrew, Victor J., Co., Chicago, Ill. Radio antenna and transmission line equipment. 403,520–1; Sept. 28; Serial Nos. 460,167–8; published July 20, 1943. Class 21.

Angier Corporation, Framingham, Mass. Paper for enclosing metal parts. 403,461; Sept. 28; Serial No. 454,619; published July 20, 1943. Class 37.

Apollo Shirt Company, assignor, by mesne assignments, to Apollo Shirt Company, New York, N. Y. Dress and top shirts. 176,454; renewed Nov. 27, 1943.

Arabel Manufacturing Co., The, New York, N. Y. Powdered vegetable glues. 174,208–9; renewed Oct. 9, 1943.

Arizona Lacquer Mfg. Co. Inc., Irvington, N. J. Lacquers, lacquer enamels, thinners, etc. 179,895; renewed Feb. 19, 1944.

Arkansas Company, Inc., Newark, N. J. Compound having detergent, penetrating and emulsifying properties. 403,459; Sept. 28; Serial No. 454,049; published Mar. 30, 1943. Class 4.

Avondale Mills, Sylacauga, Ala. Cotton piece goods. 403,563; Sept. 28. Class 42.

Baca, Pablo, doing business as 'La Victoria Packing Company, Los Angeles, Calif. Canned chili. 179,529; renewed Feb. 12, 1944.

Baker & Hamilton. (See Baker, Hamilton & Pacific Company.)

Baker & Hamilton. (See Baker, Hamilton and Pacific Company.)

Baker, Hamilton & Pacific Company, by change of name to Baker & Hamilton, San Francisco, Calif. Cutlery and tools. 177,646; renewed Dec. 25, 1943. Class 23.

Baker, Hamilton and Pacific Company, by change of name to Baker & Hamilton, San Francisco. Garden hose. 174,768; renewed Oct. 23, 1943.

Barcalo Manufacturing Company, Buffalo, N. Y. Wrenches, pliers, screwdrivers, etc. 403,467; Sept. 28; Serial No. 456,379; published July 13, 1943. Class 23.

Bartmann & Bixer Inc., New York, N. Y. Window curtains. 403,554; Sept. 28. Class 42.

Bates, C. J., & Son, Chester, Conn. Nail-buffers, nail files, manicure sticks, etc. 403,531; Sept. 28; Serial No. 460,467; published July 20, 1943. Class 44.

Bauer & Black, Chicago, Ill., assignor to The Kendall Company, Boston, Mass., and Chicago, Ill. Gauze and absorbent cotton. 176,550; renewed Nov. 27, 1943.

Bausch & Lomb Optical Company, Rochester, N. Y. Lens grinding and polishing machinery, lens edging machinery, etc. 403,522; Sept. 28; Serial No. 460,169; published June 15, 1943. Class 23.

Baxter, Woodhouse & Taylor Limited, Stockport, England. Piece goods of cotton, rayon, wool, etc. 403,463; Sept. 28; Serial No. 455,423; published July 20, 1943. Class 42.

Bear Brand Hosiery Co., Chicago, Ill., to Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. 174,833; renewed Oct. 23, 1943.

Bear Brand Hosiery Co. (See Paramount Knitting Company, The, assignor.)

Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. 177,376; renewed Dec. 18, 1943.

Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. 177,566–7; renewed Dec. 18, 1943.

Beech-Nut Packing Company, Canajoharie, N. Y. Ice cream. 179,567; renewed Feb. 12, 1944.

Beesemyer-Waggoner, Inc., Los Angeles, Calif., by change of name to Norman L. Waggoner, Inc., San Francisco, Calif. Canned fruits and vegetables. 179,057–8; renewed Feb. 5, 1944.

Belt Modes, Inc., New York, N. Y. Ladies', misses', and children's handbags and pockets. 403,543; Sept. 28; Serial No. 460,787; published July 20, 1943. Class 3.

Bendix Aviation Corporation, South Bend, Ind. Carburetors and accessories therefor. 403,564; Sept. 28. Class 23.

Berlinger, Joseph, Co., New York, N. Y. Piece goods of silk, wool, cotton, etc. 403,492; Sept. 28; Serial No. 458,904; published June 15, 1943. Class 42.

Best & Co. Inc., New York, N. Y. Women's, misses', and children's wearing apparel. 403,565; Sept. 28. Class 39.

Bixby-Zimmer Engineering Co., Galesburg, Ill. Screens. 403,500; Sept. 28; Serial No. 459,394; published June 29, 1943. Class 23.

Blechman, S., & Sons Inc., New York, N. Y. Combs, barrettes, crochet needles, etc. 179,663; renewed Feb. 12, 1944.

Blue Anchor Beverage Company. (See Friedrich, John, assignor.)

Booth, W. Stuart, trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)

Bregstein, I. M., & Sons, Inc., New York, N. Y. Ladies', misses', and girls' and children's coats, suits, jackets, etc. 403,577; Sept. 28. Class 39.

Bristol Fabrics, Inc., Boston, Mass. Shoe fabrics. 403,478; Sept. 28; Serial No. 457,325; published July 20, 1943. Class 42.

Brown, R. H., & Co. (See Western Wholesale Drug Co.)

Brown Shoe Company, Inc., St. Louis, Mo. Boys' and girls' leather, canvas, and cloth shoes. 403,506; Sept. 28; Serial No. 459,561; published June 22, 1943. Class 39.

Brown & Williamson Tobacco Corporation. (See Peoples' Drug Stores, Inc.)

Bucher & Gibbs Plow Company, The. (See Levene Motor Company.)

Busy Bee Candy Company, St. Louis. Chocolates. 178,810; renewed Jan. 29, 1944.

Calico Printers' Association, Limited, The. Cotton piece goods. 178,870; renewed Jan. 29, 1944.

California Co-operative Canneries, assignor to Tri-Valley Packing Association, San Francisco, Calif. Fruit salad, canned fruits, canned vegetables. 179,571; renewed Feb. 12, 1944. Class 46.

California Fruit Growers Exchange, Los Angeles, Calif. Beverage-dispensing fountains. 179,359; renewed Feb. 5, 1943. Class 23.

Calvert Lithographing Company, The, Detroit, Mich. Bond paper. 179,226; renewed Feb. 5, 1944.

Campbell, Harry T., Sons' Corp., Towson, Md. Extremely fine calcium carbonate. 403,516; Sept. 28; Serial No. 460,085; published July 20, 1943. Class 1.

Celanese Corporation of America, New York, N. Y. Reticular material covered with a transparent film. 403,496; Sept. 28; Serial No. 459,146; published July 20, 1943. Class 50.

Chore-Utensils Corporation of America, The, Orange, N. J., assignor to Metal Textile Corporation, West Orange, N. J. Dish, bottle, and pot mops. 174,561; renewed Oct. 23, 1943.

Cities Service Oil Company. (See Western Reserve Oil Company, The, assignor.)

Clapp, Edwin, & Son, Incorporated, East Weymouth, Mass. Boots and shoes. 403,535; Sept. 28; Serial No. 460,611; published July 20, 1943. Class 39.
Cogbill, Joseph A., doing business as Dixie Tool Company, Newark, N. J. Wrenches. 403,529; Sept. 28; Serial No. 460,418; published June 22, 1943. Class 23.
Colonial Bead Co., Inc., New York, N. Y. Iridescent costume jewelry. 403,477; Sept. 28; Serial No. 457,309; published July 20, 1943. Class 28.
Columbia River Salmon Co. Inc., Astoria, Oreg. Canned tuna. 403,525; Sept. 28; Serial No. 460,289; published July 20, 1943. Class 46.
Continental Motors Corporation, Detroit and Muskegon, Mich. Internal combustion engines. 403,514; Sept. 28; Serial No. 460,042; published July 13, 1943. Class 23.
Continental Piston Ring Company, Memphis, Tenn. Piston rings. 403,551; Sept. 28. Class 35.
Corrosion Control Corporation, Norwalk, Conn. Lacquer coatings. 403,532; Sept. 28; Serial No. 460,496; published July 20, 1943. Class 5.
Curtiss, Howard T., Utica, N. Y. Newspaper column. 403,481; Sept. 28; Serial No. 457,677; published July 13, 1943. Class 38.
Dare, Virginia, Company, The, by change of name to Virginia Dare Confections, Inc., Baltimore, Md. Preserved crushed fruits. 179,466; renewed Feb. 12, 1944.
Dare, Virginia, Confections, Inc. (See Dare, Virginia, Company.)
Davis, Max, & Sons, New York, N. Y. Women's neckties. 403,499; Sept. 28; Serial No. 459,334; published June 8, 1943. Class 39.
Deachman, T. Wilson, Chicago, Ill. Autogenous product. 172,746; renewed Sept. 11, 1943. Class 6.
Dell Publishing Company, Inc., New York, N. Y. Printed publication. 403,469; Sept. 28; Serial No. 456,594; published July 20, 1943. Class 38.
Denver and Rio Grande Western Railroad Company, The, Denver, Colo. Booklets or pamphlets. 403,580; Sept. 28. Class 38.
Detrick, M. H., Company, Chicago, Ill. Blocks or tile employed for the construction of walls and arches, etc. 403,472; Sept. 28; Serial No. 457,090; published May 25, 1943. Class 12.
Detroit Dental Manufacturing Company, by change of name to Kerr Dental Manufacturing Co., Detroit, Mich. Dental tools, instruments and supplies. 177,386; renewed Dec. 18, 1943.
Diamond Expansion Bolt Co., New York, N. Y., assignor to Diamond Expansion Bolt Company, Incorporated, Garwood, N. J. Rings for stringing bridle wires. 175,554–5; renewed Nov. 6, 1943.
Diamond Expansion Bolt Co., New York, N. Y., assignor to Diamond Expansion Bolt Company, Incorporated, Garwood, N. J. Galvanizing. 175,308; renewed Nov. 6, 1943.
Dixie Tool Company. (See Cogbill, Joseph A.)
Dominion Corset Company, Limited, Quebec, Quebec, Canada. Corsets, girdles, brassières, etc. 403,490; Sept. 28; Serial No. 458,510; published June 1, 1943. Class 39.
Domore Chair Company. (See Ferris, William S.)
Don-Ed Fabrics, Inc., New York, N. Y. Men's and women's work sleeves. 403,558; Sept. 28. Class 39.
Douglas Fir Plywood Association, Tacoma, Wash. Monthly publication. 403,555; Sept. 28. Class 38.
Dunhill, Alfred, of London, Inc., New York, N. Y. Clocks and watches. 403,585; Sept. 28. Class 27.
du Pont, Francis I., & Co., New York, N. Y. Daily financial news and statistical letters. 403,533; Sept. 28; Serial No. 460,597; published July 20, 1943. Class 38.
Eagle clothes, New York, N. Y. Women's clothing. 403,578; Sept. 28. Class 39.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Newspaper. 403,507; Sept. 28; Serial No. 459,593; published July 20, 1943. Class 38.
Eddy, Mary Baker G. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron and Fernald, trustees.)
Empire Silk Company, Wilmington, Del., and New York, N. Y., assignor to William Skinner & Sons, Holyoke, Mass. Silk piece goods. 174,191; renewed Oct. 9, 1943.
Empire Silk Company, Wilmington, Del., and New York, N. Y., assignor to William Skinner & Sons, Holyoke, Mass., and New York, N. Y. Silk piece goods. 177,342; renewed Dec. 18, 1943.
Endicott Johnson Corporation. (See Lehigh Safety Shoe Co., Inc., assignor.)
Exeter Orchards Association, Exeter, Calif. Fresh citrus fruits. 403,468; Sept. 28; Serial No. 456,383; published July 20, 1943. Class 46.
F & H Manufacturing Company, Los Angeles, Calif. Spring operable devices and safety pliers for applying said devices. 403,561; Sept. 28. Class 23.
Fansteel Products Company, Inc., North Chicago, Ill., by change of name to Fansteel Metallurgical Corporation. Battery chargers. 177,718; renewed Dec. 25, 1943.
Fansteel Metallurgical Corporation. (See Fansteel Products Company, Inc.)
Fawcett Publications, Inc., Greenwich, Conn. Comic strip and a magazine or publication. 403,457; Sept. 28; Serial No. 453,382; published July 13, 1943. Class 38.
Fear, Ernest D., Kansas City, Mo. Mixture comprising dextrose, lactose, carotene, etc. 403,497; Sept. 28; Serial No. 459,170; published May 18, 1943. Class 6.
Federal Fruit Distributors, Fresno, Calif. Fresh grapes, peaches, plums and fresh citrous fruits. 179,641; renewed Feb. 12, 1944.
Fernald, Josiah E., trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)
Ferris, William S., doing business as Domore Chair Company, assignor to Domore Chair Company, Inc., Elkhart, Ind. Office, household, and factory chairs. 179,678; renewed Feb. 12, 1944.
Filice & Perrelli Canning Company Incorporated, Richmond, Calif. Canned fruits. 403,581; Sept. 28. Class 46.
Flashlight Company of America, Jersey City, N. J. Flashlights and dry cell batteries. 403,453; Sept. 28; Serial No. 451,532; published June 2, 1942. Class 21.
Freiman, William, New York, N. Y. Ladies', misses', and junior misses' blouses, outer skirts, and dresses. 403,572; Sept. 28. Class 39.
Friedrich, John, assignor to Blue Anchor Beverage Company, Philadelphia, Pa. Ginger ale, sarsaparilla, and root beer. 179,115; renewed Feb. 5, 1944.
Fuhrman, O., Inc., assignor, by mesne assignments, to Tru-Form, Inc., New York, N. Y. Leather shoes and storm rubbers. 172,821; renewed Sept. 11, 1943.
G and G Manufacturing Company, Inc., Memphis, Tenn. Toy wagons. 403,549; Sept. 28; Serial No. 461,046; published July 20, 1943. Class 22.
Gale Shoe Mfg. Co., Boston, Mass. Shoes. 403,451; Sept. 28; Serial No. 450,796; published July 7, 1942. Class 39.
General Foods Corporation. (See New York Canners, Inc., assignor.)
General Paint Corporation, San Francisco, Calif. Paints, paint enamels, varnishes, etc. 403,462; Sept. 28; Serial No. 455,099; published Nov. 24, 1942. Class 16.
Gerber & Co. Inc., New York, N. Y. Honey. 403,548; Sept. 28; Serial No. 460,993; published July 20, 1943. Class 46.
Gilbert, S. L., & Co. Inc., to S. L. Gilbert, New York, N. Y., successor. Knitted bathing suits, sweaters, jackets, etc. 177,937; renewed Jan. 1, 1944.
Gisholt Machine Company, Madison, Wis. Lathes. 178,803; renewed Jan. 29, 1943.
Gossard, H. W., Co., The, Chicago, Ill. Corsets, girdles, step-in corsets, etc. 403,553; Sept. 28. Class 39.
Graef & Schmidt, Inc., New York, N. Y. Cutlery. 403,569; Sept. 28. Class 23.
Great Atlantic and Pacific Tea Company, The, New York, N. Y. Butter. 172,763; renewed Sept. 11, 1943.
Greenblat, Ben S., Brooklyn, N. Y. Shoes. 403,562; Sept. 28. Class 39.
Handschy, A. E., Company, Chicago, Ill. Printing inks, lacquer solutions, etc. 403,476; Sept. 28; Serial No. 457,220; published July 20, 1943. Class 11.
Harpignies, Zinaida, New York, N. Y. Women's dresses, suits, caps, etc. 403,503; Sept. 28; Serial Nos. 459,469–70; published June 22, 1943. Class 39.
Harwill Blouse Co., Inc., Boston, Mass. Dresses, blouses, dickeys, etc. 403,512; Sept. 28; Serial No. 459,996; published June 29, 1943. Class 39.
Heitman, Charles E., trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)
Herold, Chester, San Jose, Calif. Boots, shoes, and slippers. 403,570; Sept. 28. Class 39.
Hiner, Vienna. (See Hiner, Ward B.)
Hiner, Ward B., doing business as Red Ball Transit Company, to Vienna Hiner, Indianapolis, Ind., successor. Moving-vans or trucks. 169,251; renewed June 12, 1943.
Hogue, F. H., Company, doing businses as F. H. Hogue, Yuma, Ariz., and Kent, Wash. Fresh vegetables. 403,518; Sept. 28; Serial No. 460,152; published July 20, 1943. Class 46.
Hogue, F. H., Company, Yuma, Ariz., and Kent, Wash. Fresh vegetables and melons. 403,519; Sept. 28; Serial No. 460,154; published July 20, 1943. Class 46.
Hollender, S. S., Inc., Chicago, Ill. Optical frames, mountings, lenses, and parts thereof. 403,540; Sept. 28; Serial No. 460,737; published July 20, 1943. Class 26.
Hudson Manufacturing Company, Chicago, Ill. Flavoring extracts for food. 177,703; renewed Dec. 25, 1943.
Integral Dowel Bar Corporation, Chicago, Ill. Dowel units. 403,491; Sept. 28; Serial No. 458,656; published July 20, 1943. Class 12.
International Bedding Company, The, Baltimore, Md. Box springs. 172,404; renewed Aug. 28, 1943.
International Harvester Company, Chicago, Ill. Agricultural machinery and internal combustion engines. 179,631; renewed Feb. 12, 1944.
International Nickel Company, Inc., The, New York, N. Y. Nickel containing alloys. 403,505; Sept. 28; Serial No. 459,519; published July 20, 1943. Class 14.
International Postal Supply Company of New York, The, New York and Brooklyn, N. Y., to The International Postal Supply Company of New York, Brooklyn, N. Y. Check-endorsing machines. 179,976–7; renewed Feb. 19, 1944.
Ira Sportswear Company. (See Weinbaum, Ira J.)

Ivin's, J. S., Son, Inc., assignor to J. S. Ivin's Son, Inc., Philadelphia, Pa. Cookies, cakes and crackers. 179,287; renewed Feb. 5, 1944.
Jandron, Francis L., trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)
Jays Inc., Boston, Mass. Dresses, suits, coats, etc. 403,466; Sept. 28; Serial No. 456,148; published Dec. 15, 1942. Class 39.
Johns-Manville Corporation, New York, N. Y. Asbestos fiber. 403,488; Sept. 28; Serial No. 458,367; published July 20, 1943. Class 12.
Johnson Paper and Supply Company, Minneapolis, Minn. Thin glassine paper sheets. 403,508; Sept. 28; Serial No. 459,601; published July 20, 1943. Class 44.
Kanner-Wald Inc., South Norwalk, Conn. Men's hats. 403,460; Sept. 28; Serial No. 454,171; published Oct. 20, 1942. Class 39.
Karelsen, Jacques, F., New York, N. Y. Industrial diamond tools. 403,536; Sept. 28; Serial No. 460,616; published July 6, 1943. Class 23.
Kendall Company, The. (See Bauer & Black, assignor.)
Kerr Dental Manufacturing Co. (See Detroit Dental Manufacturing Company.)
King, John P., Manufacturing Co., The, Augusta, Ga. Cotton piece goods. 177,267; renewed Dec. 11, 1943.
Kirkendall Boot Company, Omaha, Nebr. Jodhpur boots. 403,498; Sept. 28; Serial No. 459,244; published June 8, 1943. Class 39.
Lamont, Elisabeth R., doing business as Elisabeth Rae, New York and Mount Vernon, N. Y. Lotion. 403,501; Sept. 28; Serial No. 459,416; published June 1, 1943. Class 6.
Lancaster Iron Works, Inc., Lancaster, Pa. Rakes, tampers, smoothers, etc. 403,527; Sept. 28; Serial No. 460,403; published June 29, 1943. Class 23.
'La Victoria Packing Company. (See Baca, Pablo.)
Lehigh Safety Shoe Co., Inc., Allentown, Pa., assignor to Endicott Johnson Corporation, Endicott, N. Y. Safety shoes. 403,560; renewed Sept. 28, 1943.
Levene Motor Company, doing business as The Bucher & Gibbs Plow Company, Tacony, Philadelphia, Pa. Plows, moldboards, landsides, and disk harrows. 403,524; Sept. 28; Serial No. 460,263; published June 22, 1943. Class 23.
Levy, Charles H., Co. Inc., New Orleans, La. Cravats. 403,528; Sept. 28; Serial No. 460,405; published July 6, 1943. Class 39.
Lord Jeff Knitting Company, Incorporated, New York, N. Y. Sweaters, mufflers, wristlets, etc. 403,473; Sept. 28; Serial No. 457,098; published June 8, 1943. Class 39.
Lord Jeff Knitting Company, Incorporated, New York, N. Y. Sweaters, mufflers and wristlets. 403,474; Sept. 28; Serial No. 457,100; published June 8, 1943. Class 39.
Luft, George W., Company, Inc., The, assignor to The George W. Luft Company, Inc., Long Island City, N. Y. Lip stick and rouge. 178,543; renewed Jan. 15, 1944.
Macrae Sportswear Co., Inc., New York, N. Y. Men's and boys' coats, suits, slacks, etc. 403,576; Sept. 28. Class 39.
Majestic Manufacturing Company, St. Louis, Mo. Steamers, sinks, coffee machines, etc. 172,804; renewed Sept. 11, 1943.
Markt & Hammacher Company, doing business as American Manufacturing Company, New York, N. Y. Agricultural implements and handles for same and hack saws. 178,205; renewed Jan. 8, 1944.
Mayer, Oscar, & Co., Chicago, Ill. Meat products. 403,452; Sept. 28; Serial No. 450,808; published July 20, 1943. Class 46.
McKesson & Robbins, Incorporated, New York, N. Y. Preparation for treatment of the nerves. 403,566; Sept. 28. Class 6.
McKesson & Robbins, Incorporated. (See Western Wholesale Drug Co.)
Metal Textile Corporation. (See Chore-Utensils Corporation of America, The, assignor.)
Meyers, A. C., & Company, Philadelphia, Pa. Scarves and dickeys. 403,489; Sept. 28; Serial No. 458,400; published June 8, 1943. Class 39.
Millard & Son. (See Reynolds, Wm. T., & Co. Inc., assignor.)
Miller, Alton L., doing business as Charles N. Miller Co., assignor to Charles N. Miller Co., Boston, Mass. Candies. 178,993; renewed Feb. 5, 1944.
Miller, Charles N., Co. (See Miller, Alton L.)
Mupu Citrus Association, Santa Paula, Calif. Fresh citrous fruit. 179,218; renewed Feb. 5, 1944.
Murray Corporation of America, The, Detroit, Mich. Rivet delivering tool. 403,544; Sept. 28; Serial No. 460,805; published July 13, 1943. Class 23.
Nelson-Caine, New York, N. Y. Ladies' and misses' dresses, coats, skirts, blouses, etc. 403,559; Sept. 28. Class 39.
New York Canners, Inc., Rochester, N. Y., assignor, by mesne assignments, to General Foods Corporation, New York, N. Y. Canned fruits and canned vegetables. 176,158; renewed Nov. 20, 1943.
North and Judd Manufacturing Company. (See U. S. Hame Company, assignor.)
Obermayer, S., Co., The, Chicago, Ill. Furnace cement. 179,484; renewed Feb. 12, 1944.
Pacific Lumber Company, The, San Francisco, Calif. Men's and women's hats. 403,480; Sept. 28; Serial No. 457,422; published June 22, 1943. Class 39.
Packard Dresses, Inc., New York, N. Y. Ladies' and misses' dresses and dress ensembles. 403,571; Sept. 28. Class 39.
Paramount Knitting Company, The, assignor to Bear Brand Hosiery Co., Chicago, Ill., assignor to Bear Brand Hosiery Co., Kankakee and Chicago, Ill. Hosiery. 175,948; renewed Nov. 13, 1943.
Peoples' Drug Stores, Inc., Washington, D. C., to Brown & Williamson Tobacco Corporation, Louisville, Ky., successors. Cigars. 170,107; renewed July 10, 1943.
Periodicals. Ahrens Publishing Company. 403,567; Sept. 28. Class 38.
Phillips-Jones Corporation, New York, N. Y. Shirts, boys' blouses and pyjamas. 179,679; renewed Feb. 12, 1944.
Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Boys' clothing. 403,494; Sept. 28; Serial No. 458,951; published June 22, 1943. Class 39.
Press Wireless, Inc., Chicago, Ill. Radio telephone, telegraph, and facsimile transmitters, etc. 403,545; Sept. 28; Serial No. 460,905; published July 20, 1943. Class 21.
Production Devices Incorporated, East Hartford, Conn. Pneumatically operated machinery. 403,456; Sept. 28; Serial No. 452,986; published June 22, 1943. Class 23.
Purity Maid Products Company, New Albany, Ind. Fresh milk and cream, butter, cheese, etc. 179,821; renewed Feb. 19, 1944.
Rae, Elizabeth. (See Lamont, Elizabeth R.)
Red Ball Transit Company. (See Hiner, Ward B.)
Reliable Stores Corporation, Baltimore, Md. Ladies' dresses, coats, and suits, etc. 403,475; Sept. 28; Serial No. 457,156; published July 6, 1943. Class 39.
Restaurant Publications, Inc. (See Ahrens Publishing Company, Inc., assignor.)
Reynolds, Wm. T., & Co. Inc., assignor, by mesne assignments, to Millard & Son, Poughkeepsie, N. Y. Coffee. 176,963; renewed Dec. 11, 1943.
Rhodes, James H., & Company, Chicago, Ill. Chamois for cleansing and polishing purposes. 403,546–7; Sept. 28; Serial Nos. 460,936–7; published July 20, 1943. Class 4.
Rieser Company, The, assignor to Rieser Company, Inc., New York, N. Y. Lip sticks, face powders, rouge, etc. 172,378; renewed Aug. 28, 1943.
Ritchie, Nelvia E., trustee, et al. (See Adams, G. W., Heitman, Ritchie, Booth, Jandron, and Fernald.)
Rosenthal, L. L., and Company, Inc., Chicago, Ill. Men's overcoats. 403,483; Sept. 28; Serial No. 458,081; published June 8, 1943. Class 39.
Rosenthal, L. L., and Company, Inc., Chicago, Ill. Men's overcoats. 403,484; Sept. 28; Serial No. 458,182; published June 29, 1943. Class 39.
Roxalin Flexible Finishes, Inc., Elizabeth, N. J. Lacquers, paint enamels, varnishes, etc. 403,502; Sept. 28; Serial No. 459,440; published July 20, 1943. Class 16.
Russell Manufacturing Co., The, Middletown, Conn. Brake lining. 179,237; renewed Feb. 5, 1944.
Sachs Quality Furniture Inc., New York, N. Y. Optical goods. 403,517; Sept. 28; Serial No. 460,126; published July 20, 1943. Class 26.
Sandpaper Incorporated, Waltham, Mass. Coated abrasives. 403,582; Sept. 28. Class 4.
Sanitol Chemical Laboratory Company, now by change of name The Sanitol Company, St. Louis, Mo., and New York, by change of name to The Sanitol Company, New York, N. Y. Toilet preparations. 178,858; renewed Jan. 29, 1944.
Sanitol Chemical Laboratory Company, now by change of name, The Sanitol Company, St. Louis, Mo. and New York, by change of name to The Sanitol Company, New York, N. Y. Shaving soap, shaving powder, shaving soap cream, etc. 178,859; renewed Jan. 29, 1943.
Sanitol Company, The. (See Sanitol Chemical Laboratory Company.)
San Juan Islands Cannery, Mount Vernon, Wash. Canned peas. 179,222; renewed Feb. 5, 1944.
Scott, Carson Pirie, & Company, Chicago, Ill. Net curtains. 403,556; Sept. 28. Class 42.
Sherwin-Williams Company, The, Cleveland, Ohio. Rolling device for the application of paints and kindred products. 403,583–4; Sept. 28. Class 23.
Sespe, Rancho, Fillmore, Calif. Citrous fruits. 179,702; renewed Feb. 12, 1944.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Fountain pens. 173,423; renewed Sept. 25, 1943.
Shirley Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. 403,573; Sept. 28. Class 42.
Skinner, William, & Sons. (See Empire Silk Company, assignor.)
Smith, A., & Son, Incorporated, Philadelphia, Pa. Stretchers. 403,574; Sept. 28. Class 44.
Smith, V. R., doing business as V. R. Smith Olive Company, Lindsay, Calif. Olives in glass. 403,526; Sept. 28; Serial No. 460,393; published July 20, 1943. Class 46.

Smith, V. R., Olive Company. (See Smith, V. R.)
Society Club Hats Corp., New York, N. Y. Men's hats. 403,513; Sept. 28; Serial No. 460,008; published July 6, 1943. Class 39.
Southern Independent Oil and Refining Company, Inc., Evansville, Ind. Gasoline, lubricating oils and greases. 403,449; Sept. 28; Serial No. 411,189; published May 30, 1939. Class 15.
Stockham, Edward V., Inc., Havre De Grace, Md. Pork and beans, and canned strained tomatoes. 179,471; renewed Feb. 12, 1944.
Strauss, Levi, and Company, San Francisco, Calif. Men's, youths', and boys' dress, negligee, and work shirts. 174,254; renewed Oct. 9, 1943.
Sulflo, Inc., Elizabeth, N. J. Lubricating compound. 403,450; Sept. 28; Serial No. 450,119; published Feb. 9, 1943. Class 15.
Supplee-Wills-Jones Milk Company, Philadelphia, Pa. Raw and pasteurized milk and cream, certified milk, and buttermilk. 177,706; renewed Dec. 25, 1943.
Svenska Diamantbergborrnings Aktiebolaget, Stockholm, Sweden. Machines and tools for rock and earth drilling, pumps, cement injectors, etc. 403,458; Sept. 28; Serial No. 454,045; published July 6, 1943. Class 23.
Standard Oil Company of New Jersey, Wilmington, Del. Synthetic rubber. 403,479; Sept. 28; Serial No. 457,404; published July 20, 1943. Class 1.
Stephan, John C., Cleveland, Ohio. Envelopes. 403,552; Sept. 28. Class 37.
Stirn L. & E., Inc., New York, N. Y. Textile fabrics in the piece. 403,538–9; Sept. 28; Serial Nos. 460,717–18; published July 20, 1943. Class 42.
Stoller Chemical Company. (See Stoller, Hugh S.)
Stoller, Hugh S., doing business as Stoller Chemical Company, Akron, Ohio. Core compound for foundry use. 403,537; Sept. 28; Serial No. 460,660; published July 20, 1943. Class 1.
Stow Manufacturing Company, Inc., Binghamton, N. Y. Flexible shafts and accessories therefor. 403,542; Sept. 28; Serial No. 460,777; published July 13, 1943. Class 23.
Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 403,509; Sept. 28; Serial No. 459,606; published July 20, 1943. Class 37.
Strong Wood Turning Corporation, Strong, Maine. Wooden tooth picks. 403,482; Sept. 28; Serial No. 457,902; published July 20, 1943. Class 44.
Tavannes Watch Co. Inc., New York, N. Y. Watches and watch movements. 403,504; Sept. 28; Serial No. 459,501; published July 20, 1943. Class 27.
Templeton, Kenly & Co., Chicago, Ill. Tool in the nature of a jack. 403,530; Sept. 28; Serial No. 460,459; published July 13, 1943. Class 23.
Torstenson Glass Co., Chicago, Ill. Flat glass, table and cooking glassware, etc. 403,493; Sept. 28; Serial No. 458,925; published July 20, 1943. Class 33.
Tri-Valley Packing Association. (See California Co-operative Canneries, assignor.)
Trotti, Clayton H., Greenwood, S. C. Polish and cleaner. 403,523; Sept. 28; Serial No. 460,223; published July 13, 1943. Class 16.
Tru-Form, Inc. (See Fuhrman, O., Inc., assignor.)
U. S. Hame Company, Buffalo, N. Y., assignor to North and Judd Manufacturing Company, New Britain, Conn. Hame attachments. 172,055; renewed Aug. 21, 1943.
Vega Aircraft Corporation, Burbank, Calif. Airplanes and structural parts. 403,465; Sept. 28; Serial No. 455,810; published July 10, 1943. Class 19.
Vita-Min-Go, Inc., New York, N. Y. Printed game rules and printed data on vitamins. 403,454; Sept. 28; Serial No. 452,549; published July 20, 1943. Class 38.
Volker, William, & Company of Missouri, Inc., Kansas City, Mo. Venetian blinds. 403,471; Sept. 28; Serial No. 456,782; published July 20, 1943. Class 32.
Waggoner, Norman L., Inc. (See Beesemyer-Waggoner, Inc.)
War Stopper Co., San Francisco, Calif. Bottle corks. 403,515; Sept. 28; Serial No. 460,078; published July 20, 1943. Class 50.
Weinbaum, Ira J., doing business as Ira Sportswear Company, Boston, Mass. Women's and misses' shirts, slacks, slack sets, etc. 403,575; Sept. 28. Class 39.
Western Reserve Oil Company, Cleveland, Ohio, assignor, by mesne assignments, to Cities Service Oil Company, Bartlesville, Okla. Lubricating oils and greases. 173,456; renewed Sept. 25, 1943.
Western Wholesale Drug Co., also doing business as R. H. Brown & Co., Los Angeles, Calif., assignor, by mesne assignments, to McKesson & Robbins, Incorporated, New York, N. Y. Ointment or salve. 179,082; renewed Feb. 5, 1944.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electronic apparatus. 403,510; Sept. 28; Serial No. 459,697; published July 20, 1943. Class 21.
Whaites, J. L., Phoenix, Ariz. Fresh vegetables. 403,486; Sept. 28; Serial No. 458,298; published July 20, 1943. Class 46.
Wilson Sporting Goods Co. (See Wilson, Thos. E., & Co., assignor.
Wilson, Thos. E., & Co., assignor, by mesne assignments, to Wilson Sporting Goods Co., Chicago, Ill. Athletic outfits. 167,030; renewed Apr. 24, 1943.
Wimelbacher & Rice, New York, N. Y. Ladies' fabric gloves. 403,557; Sept. 28. Class 39.
Wolf & Barse, Inc., New York, N. Y. Ladies' and misses' coats and suits. 403,579; Sept. 28. Class 39.
Woolsey, C. A., Paint & Color Company, Jersey City, N. J., assignor, by mesne assignments, to C. A. Woolsey Paint & Color Co. Inc., New York, N. Y. Enamel paint. 179,108; renewed Feb. 5, 1944.
Worthington Pump and Machinery Corporation, Harrison, N. J. Sheaves and pulleys. 403,470; Sept. 28; Serial No. 456,760; published July 13, 1943. Class 23.
Ziff-Davis Publishing Company, Chicago, Ill. Periodical. 403,550; Sept. 28. Class 38.
Zimmerman-Scher, Inc., New York, N. Y. Fur scarfs. 403,495; Sept. 28; Serial No. 459,141; published June 1, 1943. Class 39.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Calcium carbonate, Extremely fine. Harry T. Campbell Sons' Corp. 403,516; Sept. 28; Serial No. 460,085; published June 20, 1943.

Core compound for foundry use. H. S. Stoller. 403,537; Sept. 28; Serial No. 460,660; published July 20, 1943.

Cotton, Raw. Anderson, Clayton & Co. 175,472; renewed Nov. 6, 1943.

Rubber, Synthetic. Standard Oil Company of New Jersey. 403,479; Sept. 28; Serial No. 457,404; published July 20, 1943.

CLASS 3

Hame attachments. U. S. Hame Company. 172,055; renewed Aug. 21, 1943.

Handbags and pocketbooks, Ladies', misses' and children's. Belt Modes, Inc. 403,543; Sept. 28; Serial No. 460,787; published July 20, 1943.

CLASS 4

Abrasives, Coated. Sandpaper Incorporated. 403,582; Sept. 28.

Chamois for cleansing and polishing purposes. J. H. Rhodes & Company. 403,546–7; Sept. 28; Serial Nos. 460,936–7; published July 20, 1943.

Compound having detergent, penetrating and emulsifying properties. Arkansas Company. 403,459; Sept. 28; Serial No. 454,049; published Mar. 30, 1943.

Soap, shaving powder, shaving-soap, cream, etc., Shaving. Sanitol Chemical Laboratory Company. 178,859; renewed Jan. 29, 1944.

CLASS 5

Coatings, Lacquer. Corrosion Control Corporation. 403,532; Sept. 28; Serial No. 460,496; published July 20, 1943.

Glues, Powderer vegetable. Arabel Manufacturing Co. 174,208–9; renewed Oct. 9, 1943.

CLASS 6

Autogenous product. T. Wilson Deachman. 172,746; renewed Sept. 11, 1943.

Lip stick and rouge. George W. Luft Company. 178,543; renewed Jan. 15, 1944.

Lip sticks, face powders, rouge, etc. Rieser Company. 172,378; renewed Aug. 28, 1943.

Lotion. E. R. Lamont. 403,501; Sept. 28; Serial No. 459,416; published June 1, 1943.

Mixture comprising dextrose, lactose, carotene, etc. E. D. Fear. 403,497; Sept. 28; Serial No. 459,170; published May 18, 1943.

Ointment or salve. Western Wholesale Drug Co. 179,082; renewed Feb. 5, 1944.

Preparation for treatment of the nerves. McKesson & Robbins, Incorporated. 403,566; Sept. 28.

Toilet preparations. Sanitol Chemical Laboratory Company. 178,858; renewed Jan. 29, 1944.

CLASS 11

Printing inks, lacquer solution, etc. A. E. Handschy Company. 403,476; Sept. 28; Serial No. 457,220; published July 20, 1943.

CLASS 12

Blocks or tile employed for the construction of walls and arches, etc. M. H. Detrick Company. 403,472; Sept. 28; Serial No. 457,090; published May 25, 1943.

Brick of substantially uniform dimensions, Fire and other. American Arch Company. 174,558; renewed Oct. 23, 1943.
Cement, Furnace. S. Obermayer Co. 179,484; renewed Feb. 12, 1944.
Dowel units. Integral Dowel Bar Corporation. 403,491; Sept. 28; Serial No. 458,656; published July 20, 1943.
Fiber, Asbestos. Johns-Manville Corporation. 403,488; Sept. 28; Serial No. 458,367; published July 20, 1943.

CLASS 13

Rings for stringing bridle wires. Diamond Expansion Bolt Co. 175,554–5; renewed Nov. 6, 1943.
Steamers, sinks, coffee machines, etc. Majestic Manufacturing Company. 172,804; renewed Sept. 11, 1943.

CLASS 14

Galvanizing. Diamond Expansion Bolt Co. 175,308; renewed Nov. 6, 1943.
Nickel containing alloys. International Nickel Company. 403,505; Sept. 28; Serial No. 459,519; published July 20, 1943.

CLASS 15

Gasoline, lubricating oils and greases. Southern Independent Oil and Refining Company. 403,449; Sept. 28; Serial No. 411,189; published May 30, 1939.
Lubricating compound. Sulflo, Inc. 403,450; Sept. 28; Serial No. 450,119; published Feb. 9, 1943.
Oils and greases, Lubricating. Western Reserve Oil Company. 173,456; renewed Sept. 25, 1943.

CLASS 16

Lacquers, lacquer enamels, thinners, etc. Arizona Lacquer Mfg. Co. Inc. 179,895; renewed Feb. 19, 1944.
Lacquers, paint enamels, varnishes, etc. Roxalin Flexible Finishes, Inc. 403,502; Sept. 28; Serial No. 459,440; published July 20, 1943.
Paint, Enamel. C. A. Woolsey Paint & Color Company. 179,108; renewed Feb. 5, 1944.
Paints, paint enamels, varnishes, etc. General Paint Corporation. 403,462; Sept. 28; Serial No. 455,099; published Nov. 24, 1942.
Polish and cleaner. C. H. Trotti. 403,523; Sept. 28; Serial No. 460,223; published July 13, 1943.

CLASS 17

Cigars. Peoples' Drug Stores, Inc. 170,107; renewed July 10, 1943.

CLASS 19

Airplanes and structural parts. Vega Aircraft Corporation. 403,465; Sept. 28; Serial No. 455,810; published July 20, 1943.
Moving-vans or trucks. W. B. Hiner. 169,251; renewed June 12, 1943.

CLASS 21

Antenna and transmission line equipment, Radio. V. J. Andrew Co. 403,520–1; Sept. 28; Serial Nos. 460,167–8; published July 20, 1943.
Battery chargers. Fansteel Products Company. 177,718; renewed Dec. 25, 1943.
Electronic apparatus. Westinghouse Electric & Manufacturing Co. 403,510; Sept. 28; Serial No. 459,697; published July 20, 1943.
Flashlights and dry cell batteries. Flashlight Company of America. 403,453; Sept. 28; Serial No. 451,532; published June 2, 1942.
Telephone, telegraph, and facsimile transmitters, Radio. Press Wireless, Inc. 403,545; Sept. 28; Serial No. 460,905; published July 20, 1943.

CLASS 22

Athletic outfits. Thos. E. Wilson & Co. 167,030; renewed Apr. 24, 1943.
Wagons, Toy. G and G Manufacturing Company. 403,549; Sept. 28; Serial No. 461,046; published July 20, 1943.

CLASS 23

Agricultural implements and handles for same and hack saws. Markt & Hammacher Company. 178,205; renewed Jan. 8, 1944.
Agricultural machinery and internal combustion engines. International Harvester Company. 179,631; renewed Feb. 12, 1944.
Bucking bars, rivet sets, dimpling sets, etc. American Tool Products, Inc. 403,464; Sept. 28; Serial No. 455,698; published July 6, 1943.
Carburetors and accessories therefor. Bendix Aviation Corporation. 403,564; Sept. 28.
Check-endorsing machines. International Postal Supply Company of New York. 179,976–7; renewed Feb. 19, 1944.
Cutlery. Graef & Schmidt, Inc. 403,569; Sept. 28.
Cutlery and tools. Baker, Hamilton & Pacific Company. 177,646; renewed Dec. 25, 1943.
Fountains, Beverage-dispensing. California Fruit Growers Exchange. 179,359; renewed Feb. 5, 1944.
Grinding and polishing machinery, lens edging machinery, etc., Lens. Bausch & Lomb Optical Company. 403,522; Sept. 28; Serial No. 460,169; published June 15, 1943.
Internal combustion engine. Continental Motors Corporation. 403,514; Sept. 28; Serial No. 460,042; July 13, 1943.
Lathes. Gisholt Machine Company. 178,803; renewed Jan. 29, 1944.
Machines and tools for rock and earth drilling, pumps, cement injectors, etc. Svenska Diamantbergborrnings Aktiebolaget. 403,458; Sept. 28; Serial No. 454,045; published July 6, 1943.
Plows, moldboards, landsides, and disk harrows. Levene Motor Company. 403,524; Sept. 28; Serial No. 460,263; published June 22, 1943.
Pneumatically operated machinery. Production Devices Incorporated. 403,456; Sept. 28; Serial No. 452,986; published June 22, 1943.
Rakes, tampers, smoothers, etc. Lancaster Iron Works, Inc. 403,527; Sept. 28; Serial No. 460,403; published June 29, 1943.
Rolling device for the application of paints and kindred products. Sherwin-Williams Company. 403,583–4; Sept. 28.
Screens. Bixby-Zimmer Engineering Co. 403,500; Sept. 28; Serial No. 459,394; published June 29, 1943.
Shafts and accessories therefor, Flexible. Stow Manufacturing Company, Inc. 403,542; Sept. 28; Serial No. 460,777; published July 13, 1943.
Sheaves and pulleys. Worthington Pump and Machinery Corporation. 403,470; Sept. 28; Serial No. 456,760; published July 13, 1943.
Spring operable devices and safety pliers for applying said devices. F & H Manufacturing Company. 403,561; Sept. 28.
Tool in the nature of a jack. Templeton, Kenly & Co. 403,530; Sept. 28; Serial No. 460,459; published July 13, 1943.
Tool, Rivet delivering. Murray Corporation of America. 403,544; Sept. 28; Serial No. 460,805; published July 13, 1943.
Tools, Industrial diamond. J. F. Karelsen. 403,536; Sept. 28; Serial No. 460,616; published July 6, 1943.
Typewriters, cash registers, check protectors, tabulating machines, etc. Aktiebolaget Facit. 403,455; Sept. 28; Serial No. 452,917; published June 29, 1943.
Wrenches. Joseph A. Cogbill. 403,529; Sept. 28; Serial No. 460,418; published June 22, 1943.
Wrenches, pliers, screwdrivers, etc. Barcalo Manufacturing Company. 403,467; Sept. 28; Serial No. 456,379; published July 13, 1943.

CLASS 26

Frames, mountings, lenses, and parts thereof, Optical. S. S. Hollender, Inc. 403,540; Sept. 28; Serial No. 460,737; published July 20, 1943.
Optical goods. Sachs Quality Furniture Inc. 403,517; Sept. 28; Serial No. 460,126; published July 20, 1943.

CLASS 27

Clocks and watches. Alfred Dunhill of London, Inc. 403,585; Sept. 28.
Watches and watch movements. Tavannes Watch Co. Inc. 403,504; Sept. 28; Serial No. 459,501; published July 20, 1943.

CLASS 28

Jewelry, Iridescent costume. Colonial Bead Co. 403,477; Sept. 28; Serial No. 457,309; published July 20, 1943.

CLASS 29

Mops, Dish, bottle, and pot. Chore-Utensils Corporation of America. 174,561; renewed Oct. 23, 1943.

CLASS 32

Blinds, Venetian. William Volker & Company of Missouri, Inc. 403,471; Sept. 28; Serial No. 456,782; published July 20, 1943.
Chairs, Office, household, and factory. W. S. Ferris. 179,678; renewed Feb. 12, 1944.
Furniture. American Furniture Novelty Co. 403,541; Sept. 28; Serial No. 460,749; published July 20, 1943.
Springs, Box. International Bedding Company. 172,404; renewed Aug. 28, 1943.

CLASS 33

Flat glass, table, and cooking glassware, etc. Torstenson Glass Co. 403,493; Sept. 28; Serial No. 458,925; published July 20, 1943.

CLASS 35

Brake lining. Russell Manufacturing Co. 179,237; renewed Feb. 5, 1944.
Hose, Garden. Baker, Hamilton and Pacific Company. 174,768; renewed Oct. 23, 1943.
Piston rings. Continental Piston Ring Company. 403,551; Sept. 28.

CLASS 37

Envelopes. J. C. Stephan. 403,552; Sept. 28.
Paper, Bond. Calvert Lithographing Company. 179,226; renewed Feb. 5, 1944.

Paper for enclosing metal parts. Angier Corporation. 403,461; Sept. 28; Serial No. 454,619; published July 20, 1943.
Paper, Writing and printing. Strathmore Paper Company. 403,509; Sept. 28; Serial No. 459,606; published July 20, 1943.
Pencils and fountain pens, Mechanical. American Lead Pencil Company. 403,534; Sept. 28; Serial No. 460,607; published July 20, 1943.
Pens, Fountain. W. A. Sheaffer Pen Company. 173,423; renewed Sept. 25, 1943.

CLASS 38

Booklets or pamphlets. Denver and Rio Grande Western Railroad Company. 403,580; Sept. 28.
Books and publications, Printed. G. W. Adams, C. E. Heitman, N. E. Ritchie, W. S. Booth, F. L. Jandron, and J. E. Fernald, trustees under the will of Mary Baker G. Eddy, deceased. 403,487; Sept. 28; Serial No. 458,300; published Mar. 30, 1943.
Comic strip and a magazine or publication. Fawcett Publications, Inc. 403,457; Sept. 28; Serial No. 453,382; published July 13, 1943.
Financial news and statistical letters, Daily. F. I. du Pont & Co. 403,533; Sept. 28; Serial No. 460,597; published July 20, 1943.
Magazine. Aircraft Screw Products Company. 403,511; Sept. 28; Serial No. 459,821; published July 13, 1943.
Newspaper. Eastman Kodak Company. 403,507; Sept. 28; Serial No. 459,593; published July 20, 1943.
Newspaper column. H. T. Curtiss. 403,481; Sept. 28; Serial No. 457,677; published July 13, 1943.
Periodical. Ziff-Davis Publishing Company. 403,550; Sept. 28.
Periodicals. Ahrens Publishing Company. 403,568; Sept. 28.
Printed game rules and printed data on vitamins. Vita-Min-Go, Inc. 403,454; Sept. 28; Serial No. 452,549; published July 20, 1943.
Printed publication. Dell Publishing Company. 403,469; Sept. 28; Serial No. 456,594; published July 20, 1943.
Publication, Monthly. Douglas Fir Plywood Association. 403,555; Sept. 28.

CLASS 39

Bathing suits, sweaters, jackets, etc., Knitted. S. L. Gilbert & Co. Inc. 177,937; renewed Jan. 1, 1944.
Blouses, outer skirts, and dresses, Ladies', misses', and junior misses'. W. Freiman. 403,572; Sept. 28.
Boots and shoes. Edwin Clapp & Son, Incorporated. 403,535; Sept. 28; Serial No. 460,611; published July 20, 1943.
Boots, Jodhpur. Kirkendall Boot Company. 403,498; Sept. 28; Serial No. 459,244; published June 8, 1943.
Boots, shoes, and slippers. Chester Herold. 403,570; Sept. 28.
Clothing, Boys'. Plymouth Wholesale Dry Goods Corporation. 403,494; Sept. 28; Serial No. 458,951; published June 22, 1943.
Clothing, Women's. Eagle Clothes. 403,578; Sept. 28.
Coats and suits, Ladies' and misses'. Wolf & Barse, Inc. 403,579; Sept. 28.
Coats, suits, jackets, etc., Ladies', misses', girls', and children's. I. M. Bregstein & Sons, Inc. 403,577; Sept. 28.
Coats, suits, slacks, etc., Men's and boys'. Macrae Sportswear Co. 403,576; Sept. 28.
Corsets, girdles, brassières. Dominion Corset Company, Limited. 403,490; Sept. 28; Serial No. 458,510; published June 1, 1943.
Corsets, girdles, step-in girdles, etc. H. W. Gossard Co. 403,553; Sept. 28.
Cravats. C. H. Levy Co. Inc. 403,528; Sept. 28; Serial No. 460,405; published July 6, 1943.
Dresses and dress ensembles, Ladies' and misses'. Packard Dresses, Inc. 403,571; Sept. 28.
Dresses, blouses, dickeys, etc. Harwill Blouse Co. 403,512; Sept. 28; Serial No. 459,996; published June 29, 1943.
Dresses, coats, and suits, etc., Ladies'. Reliable Stores Corporation. 403,475; Sept. 28; Serial No. 457,156; published July 6, 1943.
Dresses, coats, skirts, blouses, etc., Ladies' and misses'. Nelson-Caine. 403,559; Sept. 28.
Dresses, suits, caps, etc., Women's. Z. Harpignies. 403,503; Sept. 28; Serial No. 459,469–70; published June 22, 1943.
Dresses, suits, coats, etc. Jays Inc. 403,466; Sept. 28; Serial No. 456,148; published Dec. 15, 1942.
Gloves, Ladies' fabric. Wimelbacher & Rice. 403,557; Sept. 28.
Hats, Men's. Kanner-Wald Inc. 403,460; Sept. 28; Serial No. 454,171; published Oct. 20, 1942.
Hats, Men's. Society Club Hats Corp. 403,513; Sept. 28; Serial No. 460,008; published July 6, 1943.
Hats, Men's and women's. Pacific Lumber Company. 403,480; Sept. 28; Serial No. 4577,422; published June 22, 1943.
Hosiery. Bear Brand Hosiery Co. 174,833; renewed Oct. 23, 1943.
Hosiery. Bear Brand Hosiery Co. 177,376; renewed Dec. 18, 1943.
Hosiery. Bear Brand Hosiery Co. 177,566–7; renewed Dec. 18, 1943.
Hosiery. Paramount Knitting Company. 175,948; renewed Nov. 13, 1943.
Neckties, Women's. M. Davis & Sons. 403,499; Sept. 28; Serial No. 459,334; published June 8, 1943.
Overcoats, Men's. L. L. Rosenthal and Company. 403,483; Sept. 28; Serial No. 458,081; published June 8, 1943.
Overcoats, Men's. L. L. Rosenthal and Company. 403,484; Sept. 28; Serial No. 458,182; published June 29, 1943.
Scarfs, Fur. Zimmerman-Scher, Inc. 403,495; Sept. 28; Serial No. 459,141; published June 1, 1943.
Scarves and dickeys. A. C. Meyers Company. 403,489; Sept. 28; Serial No. 458,400; published June 8, 1943.
Shirts, boys' blouses, and pyjamas. Phillips-Jones Corporation. 179,679; renewed Feb. 12, 1944.
Shirts, Dress and top. Apollo Shirt Company. 176,454; renewed Nov. 27, 1943.
Shirts, Men's, youth's, and boys' dress negligee, and work. Levi Strauss and Company. 174,254; renewed Oct. 9, 1943.
Shirts, slacks, slack sets, etc, Women's and misses'. I. J. Weinbaum. 403,575; Sept. 28.
Shoes. Gale Shoe Mfg. Co. 403,451; Sept. 28; Serial No. 450,796; published July 7, 1942.
Shoes. B. S. Greenblat. 403,562; Sept. 28.
Shoes and storm rubbers, Leather. O. Fuhrman, Inc. 172,821; renewed Sept. 11, 1943.
Shoes, Boys' and girls' leather, canvas and cloth. Brown Shoe Company. 403,506; Sept. 28; Serial No. 459,561; published June 2, 1943.
Shoes, Safety. Lehigh Safety Shoe Co. 403,560; Sept. 28.
Sleeves, Men's and women's work. Don-Ed Fabrics, Inc. 403,558; Sept. 28.
Sweaters, mufflers, wristlets, etc. Lord Jeff Knitting Company. 403,473; Sept. 28; Serial No. 457,098; published June 8, 1943.
Sweaters, mufflers and wristlets. Lord Jeff Knitting Company. 403,474; Sept. 28; Serial No. 457,100; published June 8, 1943.
Wearing apparel, Women's, misses' and children's. Best & Co. Inc. 403,565; Sept. 28.

CLASS 40

Combs, barrettes, crochet needles, etc. S. Blechman & Sons Inc. 179,663; renewed Feb. 12, 1944.

CLASS 42

Curtains, Net. Carson Pirie Scott & Company. 403,656; Sept. 28.
Curtains, Window. Bartmann & Bixer Inc. 403,554; Sept. 28.
Fabrics in the piece, Textile. Shirley Fabrics Corporation. 403,573; Sept. 28.
Fabrics in the piece, Textile. L. & E. Stirn Inc. 403,538–9; Sept. 28; Serial Nos. 460,717–18; published July 20, 1943.
Fabrics, Shoe. Bristol Fabrics, Inc. 403,478; Sept. 28; Serial No. 457,327; published July 20, 1943.
Piece goods, Cotton. Avondale Mills. 403,563; Sept. 28.
Piece goods, Cotton. Calico Printers' Association, Limited. 178,870; renewed Jan. 29, 1944.
Piece goods, Cotton. John P. King Manufacturing Co. 177,267; renewed Dec. 11, 1943.
Piece goods of cotton, rayon, wool, etc. Baxter, Woodhouse & Taylor Limited. 403,463; Sept. 28; Serial No. 455,423; published July 20, 1943.
Piece goods of silk, wool, cotton, etc. Joseph Berlinger Co. 403,492; Sept. 28; Serial No. 458,904; published June 15, 1943.
Piece goods, Silk. Empire Silk Company. 174,191; renewed Oct. 9, 1943.
Piece goods, Silk. Empire Silk Company. 177,342; renewed Dec. 18, 1943.

CLASS 44

Cotton, Gauze and absorbent. Bauer & Black. 176,550; renewed Nov. 27, 1943.
Dental tools, instruments, and supplies. Detroit Dental Manufacturing Company. 177,386; renewed Dec. 18, 1943.
Nail-buffers, nail files, manicure sticks, etc. C. J. Bates & Son. 403,531; Sept. 28; Serial No. 460,467; published July 20, 1943.
Sheets, Thin glassine paper. Johnson Paper and Supply Company. 403,508; Sept. 28; Serial No. 459,601; published July 20, 1943.
Stretchers. A. Smith & Son, Incorporated. 403,574; Sept. 28.
Tooth picks, Wooden. Strong Wood Turning Corporation. 403,482; Sept. 28; Serial No. 457,902; published July 20, 1943.

CLASS 45

Ginger ale, sarsaparilla, and root beer. J. Friedrich. 179,115; renewed Feb. 5, 1944.

CLASS 46

Butter. Great Atlantic and Pacific Tea Company. 172,763; renewed Sept. 11, 1943.

Butter, live and dressed poultry, and eggs. Alloway Brothers. 178,339; renewed Jan. 8, 1944.
Candies. A. L. Miller. 178,993; renewed Feb. 5, 1944.
Canned chili. P. Baca. 179,529; renewed Feb. 12, 1944.
Canned fruits. Filice & Perrelli Canning Company Incorporated. 403,581; Sept. 28.
Canned fruits and vegetables. Bessemyer-Waggoner, Inc. 179,057–8; renewed Feb. 5, 1944.
Canned fruits and canned vegetables. New York Canners, Inc. 176,158; renewed Nov. 20, 1943.
Canned peas. San Juan Islands Cannery. 179,222; renewed Feb. 5, 1944.
Canned tuna. Columbia River Salmon Co. Inc. 403,525; Sept. 28; Serial No. 460,289; published July 20, 1943.
Chocolates. Busy Bee Candy Company. 178,810; renewed Jan. 29, 1944.
Coffee. Wm. T. Reynolds & Co. Inc. 176,963; renewed Dec. 11, 1943.
Cookies, cakes, and crackers. J. S. Ivin's Son, Inc. 179,287; renewed Feb. 5, 1944.
Extracts for food, Flavoring. Hudson Manufacturing Company. 177,703; renewed Dec. 25, 1943.
Fruit, Fresh citrous. Mupu Citrus Association. 179,218; renewed Feb. 5, 1944.
Fruit salad, canned fruits, canned vegetables. California Co-operative Canneries. 179,571; renewed Feb. 12, 1944.
Fruits, Citrous. R. Sespe. 179,702; renewed Feb. 12, 1944.
Fruits, Fresh citrus. Exeter Orchards Association. 403,468; Sept. 28; Serial No. 456,383; published July 20, 1943.
Fruits, Preserved crushed. Virginia Dare Company. 179,466; renewed Feb. 12, 1944.
Grapes, peaches, plums, and citrous fruits, Fresh. Federal Fruit Distributors. 179,641; renewed Feb. 12, 1944.
Honey. Gerber & Co. Inc. 403,548; Sept. 28; Serial No. 460,993; published July 20, 1943.
Ice cream. Beech-Nut Packing Company. 179,567; renewed Feb. 12, 1944.
Meat products. Oscar Mayer & Co. 403,452; Sept. 28; Serial No. 450,808; published July 20, 1943.
Milk and cream, butter, cheese, etc., Fresh. Purity Maid Products Company. 179,821; renewed Feb. 19, 1944.
Milk and cream, certified milk, and buttermilk, Raw and pasteurized. Supplee-Wills-Jones Milk Company. 177,706 renewed Dec. 25, 1943.
Olives in glass. V. R. Smith. 403,526; Sept. 28; Serial No. 460,393; published July 20, 1943.
Pork and beans, and canned strained tomatoes. Edward V. Stockham, Inc. 179,471; renewed Feb. 12, 1944.
Vegetables and melons, Fresh. F. H. Hogue Company. 403,519; Sept. 28; Serial No. 460,154; published July 20, 1943.
Vegetables, Fresh. F. H. Hogue Company. 403,518; Sept. 28; Serial No. 460,152; published July 20, 1943.
Vegetables, Fresh. J. L. Whaites. 403,486; Sept. 28; Serial No. 458,298; published July 20, 1943.

CLASS 48

Prune concentrate, Bottled. Max Ams, Inc. 403,485; Sept. 28; Serial No. 458,260; published July 20, 1943.

CLASS 50

Corks, Bottle. War Stopper Co. 403,515; Sept. 28; Serial No. 460,078; published July 20, 1943.
Reticular material covered with a transparent film. Celanese Corporation of America. 403,496; Sept. 28; Serial No. 459,146; published July 20, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF SEPTEMBER, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Buckeye Traction Ditcher Company, The. (See Hollmann, H., and Van Voorhis, assignors.)
Dunn, Clarence L., Berkeley, and R. B. McConaughy, El Cerrito, assignors to Shell Development Company, San Francisco, Calif. Recovery of pure aromatics. Re. 22,379; Sept. 28.
Hollmann, Hubert, Findlay, and W. G. Van Voorhis, Columbus, assignors to The Buckeye Traction Ditcher Company, Findlay, Ohio. Link chain. Re. 22,380; Sept. 28.
McConaughy, Robert B. (See Dunn, C. L., and McConaughy.)
Mixer, Harold P., Rockville Centre, assignor to Remington Rand, Inc., Buffalo, N. Y. Accounting machine. Re. 22,381; Sept. 28.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. Re. 22,382; Sept. 28.
Remington Rand, Inc. (See Mixer, Harold P., assignor.)
Shell Development Company. (See Dunn, C. L., and McConaughy, assignors.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Van Voorhis, William G. (See Hollmann, H., and Van Voorhis.)

LIST OF PLANT PATENTEES

Byrum, Roy L., assignor to J. H. Hill Company, Richmond, Ind. Rose plant. 601; Sept. 28.

LIST OF DESIGN PATENTEES

Bendix, Juliette, and E. Halouze, New York, N. Y. Eyeglass frame. 136,405; Sept. 28.
Cline, Harold A., Cincinnati, assignor of one-half to J. B. Cottell, Indian Hill, Cincinnati, Ohio. Portable aerodrome light. 136,406; Sept. 28.
Cottell, John B. (See Cline, Harold A., assignor.)
Duncan, Abner D., Ponca City, Okla. Wire fence tool. 136,407; Sept. 28.
Ford, George E., Brighton, assignor to Rochester Manufacturing Co., Inc., Rochester, N. Y. Thermometer dial. 136,400; Sept. 28.
Gleason, George A., Lynn, Mass. Shoe. 136,408; Sept. 28.
Gotsch, Walter M., Company. (See Surenson, Lenore, assignor.)
Halouze, Edouard. (See Bendix, J., and Halouze.)
Jackson, Merlin M., San Jose, Calif. Combined washer and wringer drive housing. 136,410; Sept. 28.
Le Blond, R. K., Machine Tool Company, The. (See Srofe, Jesse, assignor.)
Levine, Jesse. (See Levine, M., and J.)
Levine, Mervin and J., New York, N. Y. Tag. 136,411; Sept. 28.
Parva Products Company. (See White, Paul W., assignor.)
Pons, Helene, New York, N. Y. Blouse. 136,416; Sept. 28.
Rochester Manufacturing Co. (See Ford, George E., assignor.)
Sager, Abraham, Chicago, Ill. Finger ring. 136,401; Sept. 28.
Silex Company, The. (See Wolcott, Frank E., assignor.)
Srofe, Jesse, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Tailstock. 136,402; Sept. 28.
Surenson, Lenore, assignor to W. M. Gotsch Company, Chicago, Ill. House coat. 136,409; Sept. 28.
White, Paul W., Fort Lauderdale, Fla., assignor to Parva Products Company, Chicago, Ill. Buckle. 136,412; Sept. 28.
White, Paul W., Fort Lauderdale, Fla., assignor to Parva Products Company, Chicago, Ill. Buckle. 136,413; Sept. 28.
White, Paul W., Fort Lauderdale, Fla., assignor to Parva Products Company, Chicago, Ill. Buckle. 136,414; Sept. 28.
White, Paul W., Fort Lauderdale, Fla., assignor to Parva Products Company, Chicago, Ill. Buckle. 136,415; Sept. 28.
Wiener, Jack, New York, N. Y. Embroidered lace. 136,403; Sept. 28.
Wolcott, Frank E., West Hartford, assignor to The Silex Company, Hartford, Conn. Combined coffee and tea maker. 136,404; Sept. 28.
Wolf, Semon, New York, N. Y. Slip. 136,417; Sept. 28.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF SEPTEMBER, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acrotorque Company, The. (See Fuller, Ernest W., assignor.)
Adams, Frederick W., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Fining of glass. 2,330,324; Sept. 28.
Adler, Herman G., Detroit, assignor to Novi Equipment Company, Novi, Mich. Governor structure. 2,330,657; Sept. 28.
Aerovox Corporation. (See Mantell, Russell M., assignor.)
Aktiebolaget Formator. (See Granstedt, Karl E., assignor.)
Albright, John C., assignor to The Dole Valve Company, Chicago, Ill. Welding device. 2,330,658; Sept. 28.
Aldaba, Vicente, Manila, Philippine Islands; vested in the Alien Property Custodian. Fiber spinning apparatus. 2,330,537; Sept. 28.
Alexander, Philip, Brooklyn, N. Y. Mixing device. 2,330,774; Sept. 28.
Alien Property Custodian. (See Aldaba, Vicente.)
Alien Property Custodian. (See Auchter, Ruland.)
Alien Property Custodian. (See Audubert, Ludovic.)
Alien Property Custodian. (See Barényi, Béla.)
Alien Property Custodian. (See Barthelmes, Otto.)
Alien Property Custodian. (See Beyer, Wilhelm.)
Alien Property Custodian. (See Biniek, G., and Langner.)
Alien Property Custodian. (See Decker, G., and Riedel.)
Alien Property Custodian. (See Descos, Marius.)
Alien Property Custodian. (See Dietrich, Friedrich R.)
Alien Property Custodian. (See Ehrenberg, Hermann.)
Alien Property Custodian. (See Esnault-Pelterie, Robert.)
Alien Property Custodian, The. (See Frey, Walter, and Krekel, assignors.)
Alien Property Custodian. (See Gobin di Daudé, Jean E. F.)
Alien Property Custodian, The. (See Grauding, Karl R. L.)
Alien Property Custodian, The. (See Hagerup-Larssen, Georg.)
Alien Property Custodian, The. (See Hautsch, Hans.)
Alien Property Custodian, The. (See Hefel, Karl.)
Alien Property Custodian, The. (See Hepp, Gerard.)
Alien Property Custodian. (See Heylandt, C. W. P., Mewes, Pomutz, and Baer.)
Alien Property Custodian. (See Juell, Fredrik.)
Alien Property Custodian. (See Kaschke, Kurt.)
Alien Property Custodian. (See Kipphan, E., and Siebert.)
Alien Property Custodian. (See Komenda Erwin.)
Alien Property Custodian. (See Kuipers, Minne.)
Alien Property Custodian. (See Lehfeldt, Wilhelm.)
Alien Property Custodian. (See Leifer, Alfred.)
Alien Property Custodian. (See Messner, Maxmilian, assignor.)
Alien Property Custodian. (See Müller, R., and Lee.)
Alien Property Custodian. (See Natter, Otto.)
Alien Property Custodian. (See Nitz, Herbert.)
Alien Property Custodian. (See Nüchterlein, Karl.)
Alien Property Custodian. (See Presser, Ernst.)
Alien Property Custodian. (See Ramshorn, Reinhard.)
Alien Property Custodian. (See Rantasa, Jakob.)
Alien Property Custodian. (See Reppmann, Wilhelm B.)
Alien Property Custodian. (See Revelli, Gino.)
Alien Property Custodian. (See Ruska, Ernst.)
Alien Property Custodian. (See Schmidt, Gottfried.)
Alien Property Custodian. (See Schonfeld, R., and Fiedler.)
Alien Property Custodian. (See Séailles, Jean C.)
Alien Property Custodian. (See Seligman, Roger A. L.)
Alien Property Custodian. (See Seyerle, Wilhelm.)
Alien Property Custodian. (See Siebel, Friedrich W.)
Alien Property Custodian. (See Uffelmann, Emil.)
Alien Property Custodian. (See Voigt, A., and Melster.)
Alien Property Custodian. (See Volk, Paul.)
Alien Property Custodian. (See Weiche, Georg.)
Alien Property Custodian. (See Zunzer, Adolf.)
Allen-Bradley Company. (See Matthias, Lynn H., assignor.)
Allen, Edwin L. (See Schonitzer, R. I., Allen, and Muster.)
Allen, Edwin L., and H. B. Muster, Cleveland Heights, assignors to Rudolph I. Schonitzer, Shaker Heights, Ohio. Guide for endless tracks. 2,330,195; Sept. 28.
Allen, Edwin L., and H. B. Muster, Cleveland Heights, assignors to Rudolph I. Schonitzer, Shaker Heights, Ohio. Guide for endless tracks. 2,330,196; Sept. 28.
Allen, Edwin L., and H. B. Muster, Cleveland Heights, assignors to Rudolph I. Schonitzer, Shaker Heights, Ohio. Guide for endless tracks. 2,330,786; Sept. 28.
Allen, Frank M., near Azusa, and C. B. Taylor, Anaheim, assignors to The All-Flex Corporation, Los Angeles, Calif. Flexible pipe joint. 2,330,197; Sept. 28.
Allen, Paul E., Skokie, Ill. Combined safety guard and toy. 2,330,538; Sept. 28.
All-Flex Corporation, The. (See Allen, F. M., and Taylor, assignors.)
Alox Corporation. (See Shields, James E., assignor.)
Althouse, William S., Jr. (See Burt, C. E., and Althouse.)
American Anode Inc. (See Beal, C. L., and Winder, assignors.)
American Anode Inc. (See Hansen, Merrill E., assignor.)
American Anode, Inc. (See Winder, George L., assignor.)
American Cabinet Hardware Corporation. (See Borchers, Earl, assignor.)
American Can Company. (See Maher, William W., assignor.)
American Can Company. (See Peters, John F., assignor.)
American Cyanamid Company. (See Jayne, David W. Jr., assignor.)
American Cyanamid Company. (See Parker, Robert P., assignor.)
American Maize-Products Company. (See Walsh, James F., assignor.)
American Optical Company. (See Splaine, Edward M., assignor.)
American Smelting and Refining Company. (See Fiske, Augustus H., Jr., assignor.)
American Smelting and Refining Company. (See Fritschle, Arthur, assignor.)
American Steel Foundries. (See Oelkers, Alfred H., assignor.)
Ames, Evelyn H., executrix. (See Ames, John F.)
Ames, John F., Selma, Ala., deceased; E. H. Ames, executrix. Semicarton. 2,330,255; Sept. 28.
Anderson, George N. Talco, Tex. Cementing plug. 2,330,659; Sept. 28.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Tabulating mechanism for accounting machines. 2,330,660; Sept. 28.
Andrews, O. B., Company. (See Boh, G. W., and Turner, assignors.)
Anglo-Iranian Oil Company Limited. (See Birch, S. F., and Beynon, assignors.)
Applied Arts Corporation. (See Gillisse, E., and Hendricks, assignors.)
Archer, George F., New York, N. Y. Explosive-carrier sensitive to airplane induced aerial disturbances. 2,330,325; Sept. 28.
Armagost, William K. (See Harper, K. W. Gradisar, Armagost and Peck.)
Aronauer, Joseph, Inc. (See Saval, Joseph A., assignor.)
Ashton, Fred B., St. Louis, Mo. Tablet dispenser. 2,330,256; Sept. 28.
Atkeson, Florian V., Pasadena, Calif. Fractionating vapors. 2,330,326; Sept. 28.
Atlas Powder Company. (See Moat, H. L., and Troxler, assignors.)
Autogiro Company of America. (See Campbell, Harris S., assignor.)
Automatic Devices Corporation. (See Bahr, Gustave F., assignor.)
Automatic Electric Laboratories, Inc. (See Belliveau, Alfred H., assignor.)
Automatic Electric Laboratories, Inc. (See Hershey, Harry E., assignor.)
Automatic Electric Laboratories, Inc. (See Mote, Thomas H., assignor.)
American Steel and Wire Company of New Jersey, The. (See Febrey, Harold H., assignor.)
American Tool Works Company, The. (See Hoelscher, William G., assignor.)
Arens Controls, Inc. (See Norton, Calhoun, assignor.)
Arey, Ralph G., Swampscott, and H. T. Faus, Lynn, Mass., assignors to General Electric Company. Telemetering arrangement. 2,330,661; Sept. 28.
Askania Regulator Company. (See Ziebolz, Herbert, assignor.)
Atlantic Carton Corporation. (See Atterbury, Henry C., assignor.)
Atterbury, Henry C., assignor to Atlantic Carton Corporation, Norwich, Conn. Dispensing receptacle. 2,330,464; Sept. 28.
Auchter, Ruland, Konigsbach in Baden, Germany; vested in the Alien Property Custodian. Catalyst. 2,330,539; Sept. 28.
Audubert, Ludovic, Le Kremlin-Bicetre, France; vested in the Alien Property Custodian. Volumetric compressor. 2,330,540; Sept. 28.

Automatic Electric Laboratories, Inc. (See Johnson, Vincent A., assignor.)
Automatic Electric Laboratories, Inc. (See Lomax, C. E., and Bakker, assignors.)
Automotive Products Company, Limited. (See Carlton, Quintin H., assignor.)
B. B. Chemical Co. (See Morris, Thomas C., assignor.)
Babcock & Wilcox Company, The. (See Raynor, Arthur E., assignor.)
Babcock, Earl, assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Pressure core taker. 2,330,327; Sept. 28.
Bachman, Walter S., Los Angeles, Calif. Apparatus for dispensing hypochlorites. 2,330,328; Sept. 28.
Baer, Alfred. (Se Heylandt, C. W. P., Mewes, Pomutz, and Baer.)
Bahr, Gustave F., assignor to Automatic Devices Corporation, Bridgeport, Conn. Cigar lighter. 2,330,187; Sept. 28.
Bailey Meter Company. (See Hornfeck, Anthony J., assignor.)
Bailey, Stacy P., assignor, by mesne assignments, to J. F. Wallace, New York, N. Y. Making tampons. 2,330,257; Sept. 28.
Baker, Harold L., Oakland, Calif. Sectional mold for tire casings. 2,330,329; Sept. 28.
Baker Oil Tools, Inc. (See Baker, Reuben C., assignor.)
Baker Oil Tools, Inc. (See Burt, Clarence E., assignor.)
Baker Oil Tools, Inc. (See Burt, C. E., and Althouse, assignors.)
Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Trip device for well apparatus. 2,330,258; Sept. 28.
Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Well packer. 2,330,259; Sept. 28.
Bakker, Pier. (See Lomax, C. E., and Bakker.)
Balfe, George T., assignor to Detroit Gasket & Mfg. Company, Detroit, Mich. Making window run. 2,330,662; Sept. 28.
Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Reversing gear. 2,330,198; Sept. 28.
Bannon, William H. (See Voegeli, Frederick B., assignor.)
Barényi, Béla, Boblingen, Germany; vested in the Alien Property Custodian. Shock absorption mechanism for axles of motor cars. 2,330,541; Sept. 28.
Barnebl, August J., Chicago; H. D. Grant, Flossmoor; and A. C. Barnebl, Chicago, assignors to Swenson Evaporator Company, Harvey, Ill. Dewatering of suspended solids. 2,330,542; Sept. 28.
Barnebl, August C. (See Barnebl, A. J., Grant, and Barnebl.)
Barnes, Marion W., assignor to Universal Oil Products Company, Chicago, Ill. Heater of fluids. 2,330,188; Sept. 28.
Barnes, Marion W., assignor to Universal Oil Products Company, Chicago, Ill. Heater for fluids. 2,330,189; Sept. 28.
Barthelmes, Otto, Zella-Mehlis, Thuringia, Germany; vested in the Alien Property Custodian. Accounting machine. 2,330,543; Sept. 28.
Basch, Olive H., Westfield, N. J. Knitted article. 2,330,199; Sept. 28.
Batavia Body Company. (See De More, Leonel A., assignor.)
Bauer, Edward E., Philadelphia, and Anton W. Fraps, Upper Darby, Pa., assignors to General Electric Company. Automatic reclosing circuit breaking system. 2,330,544; Sept. 28.
Baxter, William L., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making shoe lasts. 2,330,260; Sept. 28.
Beal, Carl L., and G. L. Winder, Cuyahoga Falls, assignors to American Anode Inc., Akron, Ohio. Tabbed rubber article and making the same. 2,330,330; Sept. 28.
Beckett, Reginald W., Elyria, Ohio. Combustion method for oil burners. 2,330,190; Sept. 28.
Beckett, Reginald W., Elyria, Ohio. Air tube and burner head for oil burners and the like. 2,330,191; Sept. 28.
Bednarek, Peter C., Chicago, Ill., assignor to Ostermoor & Company, Bridgeport, Conn. Handle for mattresses. 2,330,192; Sept. 28.
Beech-Nut Packing Company. (See Darrow, Samuel I., assignor.)
Bell Aircraft Corporation. (See Howe, Smith B., assignor.)
Belliveau, Alfred H., Chicago, Ill., assignor to Automatic Electric Laboratories, Inc. Indicating system. 2,330,356; Sept. 28.
Bench, David E. (See Drummond, F. E., and Bench.)
Bendix-Westinghouse Automotive Air Brake Company. (See Eaton, Wilfred A., assignor.)
Benjamin Electric Mfg. Company. (See Phillips, Paul D., assignor.)
Bennett, Alva H., Kenmore, and R. S. Estey, assignors to Spencer Lens Company, Buffalo, N. Y. Telescope objective and method of making same. 2,330,663; Sept. 28.
Bennett, Owen G., and A. Van Andel, Forest Hills, Pa., assignors to Carbon Monoxide Eliminator Corp., Pittsburgh, Pa. Oxidation catalyst. 2,330,664; Sept. 28.
Benoit, Edouard LeB., Brooklyn, N. Y. Desiccating apparatus. 2,330,545; Sept. 28.
Berg, Quentin, Havre de Grace, Md., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,330,665; Sept. 28.
Berger, Benjamin S., Hewlett, assignor to Philip Florin, Inc., New York, N. Y. Key holder. 2,330,546; Sept. 28.
Bergstein, Frank D., et al., trustee. (See Bergstein, Samuel, assignor.)
Bergstein, Robert M., et al., trustee. (See Bergstein, Samuel, assignor.)
Bergstein, Samuel, Cincinnati, Ohio, assignor to Robert Morris Bergstein, and Frank David Bergstein, trustees. Means and method for package closure. 2,330,466; Sept. 28.
Berkowitz Envelope Company. (See Berkowitz, Eugene B., assignor.)
Berkowitz, Eugene B., assignor to Berkowitz Envelope Company, Kansas City, Mo. Quick-opening envelope. 2,330,666; Sept. 28.
Bernstein, Isidor M., assignor to H. D. Roosen Company, Brooklyn, N. Y. Heat set ink. 2,330,667; Sept. 28
Berriman, Algernon E., assignor to Pressed Steel Company Limited, Oxford, England. Welding apparatus. 2,330,465; Sept. 28.
Beyer, Thomas W., San Rafael, Calif. Adjustable reed. 2,330,261; Sept. 28.
Beyer, Wilhelm, Berlin-Frohnau, Germany; vested in the Alien Property Custodian. High-pressure steam generator. 2,330,547; Sept. 28.
Beynon, John H. (See Birch, S. F., and Beynon.)
Biggs, Charles A., Burlington, Ontario, Canada. Packing box and lining therefor. 2,330,262; Sept. 28.
Biggs, Charles M., Lancaster, N. Y., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Safety mechanism for glass forming machines. 2,330,668; Sept. 28.
Biles, George S., assignor to Price Battery Corporation, Hamburg, Pa. Nonoverfill and vent construction for storage batteries. 2,330,669; Sept. 28.
Biniek, Georg, Berlin-Siemensstadt, and H. Langner, Berlin-Steglitz, Germany; vested in the Alien Property Custodian. Telephone set. 2,330,548; Sept. 28.
Birch, Stanley F., and J. H. Beynon, Sunbury-on-Thames, assignors, by mesne assignments, to Anglo-Iranian Oil Company Limited, London, England. Isomerization of normal paraffins. 2,330,787; Sept. 28.
Birnie, John U. (See MacDonald, James A., assignor.)
Black, James J., assignor to The Trailer Company of America, Cincinnati, Ohio. Sliding door. 2,330,670; Sept. 28.
Blaney, Arthur C., Los Angeles, Calif., assignor to Radio Corporation of America. Control track recording and synchronizing system. 2,330,331; Sept. 28.
Blau, Henry H., Elmira, assignor to Corning Glass Works, Corning, N. Y. Making stained glass articles. 2,330,193; Sept. 28.
Blau, Henry H., Elmira, assignor to Corning Glass Works, Corning, N. Y. Reflecting optical system. 2,330,194; Sept. 28.
Bock, Louis H., Huntington Valley, and A. L. Houk, assignors to Röhm & Hass Company, Philadelphia, Pa. Novel dyeing effects. 2,330,775; Sept. 28.
Boh, George W., and W. E. Turner, assignors to O. B. Andrews Company, Chattanooga, Tenn. Bottle partition or divider. 2,330,671; Sept. 28.
Bomar, Ernest C., United States Army, Philadelphia, Pa. Cartridge case. 2,330,200; Sept. 28.
Boon, Robert R., Durham, Calif. Boat propulsion device. 2,330,332; Sept. 28.
Borchers, Earl, assignor to American Cabinet Hardware Corporation, Rockford, Ill. Catch assembly. 2,330,403; Sept. 28.
Borg, George W., Corporation. (See Gibbs, Thomas B., assignor.)
Boston, John P. (See Peters, M. F., and Boston.)
Bowers, Thomas A., Mattapoisett, assignor to Power Research Corporation, Boston, Mass. Fabricating piston rings. 2,330,549; Sept. 28.
Bowers, Thomas A., Mattapoisett, assignor to Power Research Corporation, Boston, Mass. Ring means for pistons. 2,330,550; Sept. 28.
Bowie, Augustus J., San Francisco, Calif. Fuse. 2,330,467; Sept. 28.
Boyton, Alexander, San Antonio, Tex. Wrench. 2,330,201; Sept. 28.
Braak, Hendrik R., Batavia-Centrum, Java, Dutch East Indies, assignor, by mesne assignments, to P. Honig, Washington, D. C., Commissioner of the Board for Economic and Financial Affairs of The Netherlands Indies, Surinam and Curaçao, as trustee. Process and apparatus for dialyzing latex. 2,330,672; Sept. 28.
Braum, Frank J., Great Neck, N. Y. Flashlight. 2,330,673; Sept. 28.
Brennan, Henry E., assignor to The Medart Company, St. Louis, Mo. Work guide. 2,330,551; Sept. 28.
Brennan, Joseph B., Euclid, Ohio. Making electrodes. 2,330,202; Sept. 28.
Briggs, Henry C., Brooklyn, N. Y. Mechanism for improving the dirigibility of ships, submarines, and aircraft. 2,330,674; Sept. 28.
Brisbane, Eugene C., and E. E. Hilker, assignors to S. Morgan Smith Company, York, Pa. Fluid control means. 2,330,468; Sept. 28.

Broderick, Aubrey E., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Esterification of hydroxyalkyl celluloses. 2,330,263; Sept. 28.
Brooker, Leslie G. S., and W. W. Williams, assignors to Eastman Kodak Company, Rochester, N. Y. Dye intermediate. 2,330,203; Sept. 28.
Brooks Equipment Corporation. (See Brooks, Stephen H., assignor.)
Brooks, Stephen H., assignor to Brooks Equipment Corporation, New York, N. Y. Lubricated hinged shaft joint. 2,330,552; Sept. 28.
Brostrom, Charles G., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,330,264; Sept. 28.
Brown Instrument Company, The. (See Moore, Coleman B., assignor.)
Brown, Robert L., assignor to W. R. Wiley, Detroit, Mich. Clip. 2,330,675; Sept. 28.
Browne, Harold B. (See Hughes, A. E., Browne, and Roderick.)
Brubaker, Merlin M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating process and product. 2,330,333; Sept. 28.
Brunswick-Balke-Collender Company, The. (See Cloutier, Ellery J., assignor.)
Bryant Chucking Grinder Company. (See Cornell, E. S., and Williams, assignors.)
Buckingham, William D., Southampton, and D. H. Nelson, St. James, assignors to The Western Union Telegraph Company, New York, N. Y. Light valve. 2,330,334; Sept. 28.
Buckley, Stuart E., Houston, Tex., assignor to Standard Oil Development Company. Separating liquid from gas. 2,330,676; Sept. 28.
Budd, Edward G., Manufacturing Company. (See Phair, Robert S., assignor.)
Budd Wheel Company. (See Eksergian, Carolus L., assignor.)
Buffalo Foundry & Machine Co. (See Kermer, Martin J., assignor.)
Builders Safety Products, Inc. (See Walstrom, Emil A., assignor.)
Bulldog Electric Products Company. (See Platz, Elwood T., assignor.)
Burns, Samuel L., and M. Chesterfield, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Electrolytic alkali chlorine cell. 2,330,404; Sept. 28.
Burt, Clarence E., Los Angeles, assignor to Baker Oil Tools, Inc., Vernon, Calif. Explosive trip for well devices. 2,330,265; Sept. 28.
Burt, Clarence E., Los Angeles, assignor to Baker Oil Tools, Inc., Vernon, Calif. Cementing plug. 2,330,266; Sept. 28.
Burt, Clarence E., Los Angeles, and W. S. Althouse, Jr., South Pasadena, assignors to Baker Oil Tools, Inc., Vernon, Calif. Well cementing apparatus. 2,330,267; Sept. 28.
Butler, Benjamin F., New York, N. Y. Ferric oxide and its preparation. 2,330,553; Sept. 28.
Byus, Vere, and E. D. Spangler, Gary, Ind. Cold-rolling steel strip or sheet. 2,330,469; Sept. 28.
Calahan, Harold A., Rye, N. Y. Heaving line device. 2,330,470; Sept. 28.
Callaway Mills. (See Parker, Joseph V., assignor.)
Cameron, Allan M., assignor to Cameron Can Machinery Co., Chicago, Ill. Die press attachment. 2,330,554; Sept. 28.
Cameron, Allan M., assignor to Cameron Can Machinery Co., Chicago, Ill. Stop motion mechanism for die presses. 2,330,555; Sept. 28.
Cameron Can Machinery Co. (See Cameron, Allan M., assignor.)
Campbell, Harris S., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Multirotor aircraft. 2,330,204; Sept. 28.
Canadian Cellucotton Products Company Limited. (See Laflamme, Rene M., assignor.)
Canfield, Richard W., assignor to Clemson Bros., Inc., Middletown, N. Y. Drive mechanism. 2,330,677; Sept. 28.
Capitol Renewable Fuse Company. (See Mervis, Harry W., assignor.)
Carbide and Carbon Chemicals Corporation. (See Broderick, Aubrey E., assignor.)
Carbon Monoxide Eliminator Corp. (See Bennett, Owen G., and Van Andel, assignors.)
Carlson, Arvid A., Syracuse, N. Y., and H. E. Karig, Rutherford, N. J., assignors to Carrier Corporation, Syracuse, N. Y. Method of enlarging tube ends. 2,330,556; Sept. 28.
Carlton, Quintin H., assignor to Automotive Products Company Limited, Leamington Spa, England. Liquid pressure remote control system. 2,330,678; Sept. 28.
Carnegie-Illinois Steel Corporation. (See Moffat, R., and Wright, assignors.)
Carrier Corporation. (See Carlson, A. A., and Karig, assignors.)
Case, Richard Y., Philadelphia, assignor to L. H. Gilmer Co., Tacony, Philadelphia, Pa. Power transmission belt. 2,330,405; Sept. 28.
Celanese Corporation of America. (See Haney, Clifford I., assignor.)
Celanese Corporation of America. (See Taylor, W. I., Olpin, and House, assignors.)
Celanese Corporation of America. (See Whitehead, William, assignor.)
Champion Pecan Machine Company, The. (See Meyer, Leo J., assignor.)
Chemical Construction Corporation. (See Erickson, Stephen E., assignor.)
Chesterfield, Martin. (See Burns, S. L., and Chesterfield.)
Chiappinelli, Quirino, Providence, R. I., assignor of one-half to M. E. Proctor, New Haven, Conn. Pivot mounting for pins of brooches and the like. 2,330,788; Sept. 28.
Chiappinelli, Quirino, Providence, R. I., assignor of one-half to M. E. Proctor, New Haven, Conn. Safety catch for bar pins of brooches and the like. 2,330,789; Sept. 28.
Church, Ira L., assignor to Lottie Sanford, Reed City, Mich. Combination bean puller and hoe. 2,330,679; Sept. 28.
Clark, Charles O., assignor of one-half to Le Roy Clark, Mount Vernon, Ill. Spray stencil hold-down. 2,330,471; Sept. 28.
Clark, Le Roy. (See Clark, Charles O., assignor.)
Clark, Charles A., New York, N. Y. Miniature camera. 2,330,406; Sept. 28.
Claytor, Edward M., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Overdrive control system. 2,330,407; Sept. 28.
Clemson Bros., Inc. (See Canfield, Richard W., assignor.)
Clemson Bros., Inc. (See Clemson, Richard D., assignor.)
Clemson, Richard D., assignor to Clemson Bros., Inc., Middletown, N. Y. Lawn mower. 2,330,680; Sept. 28.
Clothier, Stewart L., Teaneck, and H. C. Hogencamp, Maplewood, N. J. Method and apparatus for television communication. 2,330,682; Sept. 28.
Cloutier, Ellery J., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Masking structure for bowling alleys. 2,330,268; Sept. 28.
Cobert, Arthur J., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Machine and process for knitting hosiery blanks. 2,330,681; Sept. 28.
Cobert, Arthur J., assignor to Real Silk Hosiery Mills, Inc., Indianapolish, Ind. Stocking. 2,330,683; Sept. 28.
Cohan, Albert, et al. (See Money, Benjamin F., assignor.)
Coleman, Robert H., and O. D. Hunt, assignors of one-fourth to E. E. Whisnant, and one-fourth to C. L. Whisnant, Hickory, N. C. Knitting machine. 2,330,269; Sept. 28.
Colling, Joseph J., Pittsburgh, Pa. Bumper for commercial vacuum cleaners. 2,330,684; Sept. 28.
Collins, Milford E., Los Angeles, Calif., assignor to Radio Corporation of America. Galvanometer adjusting assembly. 2,330,335; Sept. 28.
Collis, Reginald, Ottawa, Ontario, Canada. Vehicle suspension and steering mechanism. 2,330,557; Sept. 28.
Connolly, Gerald C., Baton Rouge, La., assignor to Standard Oil Development Company. Catalyst. 2,330,685; Sept. 28.
Consolidated Engineering Corporation. (See Hoover, H., Jr., and Swan, assignors.)
Consolidated Machine Tool Corporation. (See Trosch, A., and Forward, assignors.)
Container Corporation of America. (See Leavitt, J. P. H., and Wells, assignors.)
Continental Can Company. (See England, I. W., and Haycock, assignors.)
Continental Can Company. (See Kronquest, Alfred L., assignor.)
Cornell, Elton S., Charlestown, N. H., and C. N. Williams, assignors to Bryant Chucking Grinder Company, Springfield, Mass. Tool spindle with removable projection. 2,330,686; Sept. 28.
Corning Glass Works. (See Blau, Henry H., assignor.)
Coultas, Wilbur J., and Ellsworth T. Johnson, assignors to Deere & Company, Moline, Ill. Tractor mower. 2,330,687; Sept. 28.
Coventry Climax Engines Limited. (See Hathaway, Lawrence, assignor.)
Coventry Climax Engines Limited. (See Lee, L. P., Hathaway, and Sawbridge, assignors.)
Cover, Jacob A., Modesto, Calif. Fertilization of small plants. 2,330,408; Sept. 28.
Cox, Clyde B., Fort Ord, Calif. Ordnance. 2,330,205; Sept. 28.
Craig, Ernest, Falconbridge, Ontario, Canada. Dressing and sharpening rock drills. 2,330,688; Sept. 28.
Crites, Wilbur J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for pumping fluids. 2,330,336; Sept. 28.
Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
Crompton & Knowles Loom Works. (See Santon, Elliot A., assignor.)
Crosley Corporation, The. (See Klotsch, Paul, assignor.)
Crosley Corporation, The. (See Mittendorf, William R., assignor.)

Crosman, Loring P., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Register. 2,330,270; Sept. 28.
Crosman, Loring P., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Register. 2,330,689; Sept. 28.
Crouch, John, Natoma, Calif. Replaceable lip dredge bucket. 2,330,409; Sept. 28.
Cupery, Martin E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Alpha, beta-unsaturated ketones as drying accelerators for oil modified coatings. 2,330,337; Sept. 28.
Curtis Pump Company. (See Curtis, Russell R., assignor.)
Curtis, Russell R., assignor to Curtis Pump Company, Dayton, Ohio. High altitude fuel system for aircraft. 2,330,558; Sept. 28.
Cutler, Wallace M., Gloucester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for treating hides and skins. 2,330,271; Sept. 28.
Cyr, Rene E., Lewiston, Maine. Baker's sheet. 2,330,410; Sept. 28.
Czech, Henry J. (See Hayes, C. B., and Czech.)
Dannenberg, Kurt, Islington, London, assignor of one-half to Electric Transmission Limited, Etruria, Stoke-on-Trent, Staffordshire, England. Cartridge fuse and switchgear incorporating the fuse. 2,330,690; Sept. 28.
Darrow, Samuel I., Palatine Bridge, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Package. 2,330,691; Sept. 28.
Davenport-Woosley Processing Corporation. (See Patton, James E., assignor.)
Davis, Lee I. (See Heart, H. L., and Davis.)
Dawson, George A. (See Middleton, E. B., and Dawson.)
Deane, Henry N. (See Ruttiman, A., and Deane.)
Decker, Gustav, and F. Riedel, Berlin, Germany; vested in the Alien Property Custodian. Vapor generator or boiler. 2,330,559; Sept. 28.
Deere & Company. (See Coultas, W. J., and Johnson, assignors.)
Deere & Company. (See Paul, Talbert W., assignor.)
Deere & Company. (See Rasmussen, C. T., and Griff, assignors.)
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Certain water-soluble high molal oxyalkylated esters and making same. 2,330,472; Sept. 28.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Certain water-soluble high molal oxyalkylated esters and making same. 2,330,473; Sept. 28.
De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,330,474; Sept. 28.
Dekome, Arthur E., Garfield Heights, H. C. Dekome, and V. J. Sedlon, Cleveland, Ohio. Roller skate. 2,330,338; Sept. 28.
Dekome, Herman C. (See Dekome, A. E., H. C., and Sedlon.)
De More, Leonel A., Oak Park, assignor to Batavia Body Company, Incorporated, Batavia, Ill. Refrigerated vehicle body. 2,330,339; Sept. 28.
De Pew, Chester C. (See Gregory, A. T., and De Pew.)
Derby, Elmer R. (See Hazeltine, B. P., and Derby.)
Descos, Marius, Saint-Etienne, France; vested in the Alien Property Custodian. Frame for cycles and the like. 2,330,560; Sept. 28.
Detroit Gasket & Mfg. Company. (See Balfe, George T., assignor.)
Dettle, Lawrence E., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Record blank supporting arbor and assembly device. 2,330,411; Sept. 28.
DeVlieg, Charles B., Ferndale, Mich. Boring tool. 2,330,692; Sept. 28.
Dierking, Lester H., assignor to Edward H. Kramer, Detroit, Mich. Planer gauge. 2,330,412; Sept. 28.
Dieter, Curtis E., G. E. Lynn, and B. J. Thiegs, assignors to The Dow Chemical Company, Midland, Mich. Insecticide. 2,330,340; Sept. 28.
Dietrich, Friedrich R., Munich, Germany; vested in the Alien Property Custodian. Vehicle rear signal. 2,330,561; Sept. 28.
Dillon, W. C., & Company. (See Elwert, Edward E., assignor.)
Di Lucci, Anthony J., assignor to Sydney J. Levy, Los Angeles, Calif. Piston ring expander. 2,330,475; Sept. 28.
Distillers Company Limited, The. (See Staudinger, Hanns P., assignor.)
Dixon, Joseph, Crucible Company. (See Hasselquist, H. S., and Nichols, assignors.)
Dole Valve Company, The. (See Albright, John C., assignor.)
Donchess, Lucille E., Gary, Ind. Surgical chair. 2,330,476; Sept. 28.
Donnelly, John F., Oakland, assignor of one-fourth to Alice Sullivan and one-fourth to Etta McKenna, both of San Francisco, Calif. Submarine rescue device. 2,330,477; Sept. 28.
Dow Chemical Company, The. (See Dieter, C. E., Lynn, and Thiegs, assignors.)
Dow Chemical Company, The. (See Lynn, George E., assignor.)
Dow Chemical Company, The. (See Moyle, Clarence L., assignor.)
Drummond, Folsom E., and D. E. Bench, Dayton, Ohio, assignors to The Himmel Brothers Company, Hamden, Conn. Electropolishing apparatus. 2,330,562; Sept. 28.
Dryer, Charles G., and R. B. Thompson, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,330,206; Sept. 28.
Du Pont, Benjamin B. (See du Pont, S. and B. B.)
Du Pont, E. I., de Nemours & Company. (See Brubaker, Merlin M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Cupery, Martin E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Holbrook, G. E., and Spiegler, assignors.)
Du Pont, E. I., de Nemours & Company. (See Holt, Lee C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Jayne, David W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Kirby, James E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Middleton, E. B., and Dawson, assignors.)
Du Pont, E. I., de Nemours & Company. (See Schwartz, George L., assignor.)
Du Pont, Stephen, Wilbraham, Mass., and B. B. du Pont, Montchanin, Del., assignors to Indian Motocycle Company, Springfield, Mass. Motorcycle saddle. 2,330,341; Sept. 28.
Durant, Lyndon A. (See Williams, H. E., and Durant.)
Duval, Jean G. L., Saint-Cyr-sur-Mer, France, assignor to Olaer Patent Company, New York, N. Y. Plastic composition and packing device. 2,330,563; Sept. 28.
Dwelle, Thomas W., Bakersfield, Calif. Speed controller. 2,330,342; Sept. 28.
Dyer, Clinton C., Bakersfield, Calif. Mud ejection control. 2,330,564; Sept. 28.
Eastman Kodak Company. (See Brooker, L. G. S., and Williams, assignors.)
Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid coupling. 2,330,413; Sept. 28.
Eckart, Walter W., Chicago, Ill. Power transmission pump. 2,330,565; Sept. 28.
Edmonds, Albert H., and H. M. Noble, Lancaster, Ohio. Pattern controlled machine. 2,330,566; Sept. 28.
Ehrenberg, Hermann, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Feed apparatus for profile copying machines. 2,330,567; Sept. 28.
Eickman, Willis E. (See Robertson, W. H., and Eickman.)
Einson-Freeman Co. (See Horr, John V., assignor.)
Eksergian, Carolus L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Differential wheel. 2,330,790; Sept. 28.
Electric Transmission Limited. (See Dannenberg, Kurt, assignor.)
Elliott, Charles I., Sea Girt, N. J., assignor to Radio Corporation of America. Package. 2,330,345; Sept. 28.
Elliott, Charles I., Sea Girt, N. J., assignor to Radio Corporation of America. Carton. 2,330,346; Sept. 28.
Elliott, Charles I., Sea Girt, N. J., assignor to Radio Corporation of America. Shipping container. 2,330,347; Sept. 28.
Elliott, Charles I., Sea Girt, N. J., assignor to Radio Corporation of America. Package. 2,330,348; Sept. 28.
Elliott, Edward, Arlington, Va., assignor to Federal Business Machines Corporation, Washington, D. C. Copy holder. 2,330,776; Sept. 28.
Elliott, Edward L., Woodside Park, Md., assignor to Federal Business Machines Corporation, Washington, D. C. Copy holder. 2,330,777; Sept. 28.
Elliott, Edward L., Arlington, Va., assignor to Federal Business Machines Corporation, Washington, D. C. Copy holder. 2,330,778; Sept. 28.
Elwert, Edward E., Galesburg, assignor to W. C. Dillon & Company, Inc., Chicago, Ill. Bisector. 2,330,414; Sept. 28.
England, Isaac W., and J. Haycock, assignors to Continental Can Company, Inc., New York, N. Y. Making sheet metal containers. 2,330,207; Sept. 28.
Englert, Walter J., assignor of one-half to H. J. Nagle, and one-half to R. A. Nagle, Rochester, N. Y., jointly. Coin bank. 2,330,478; Sept. 28.
Erdély, Jorge, Mexico City, Mex. Shield for pustules from vaccination against smallpox. 2,330,693; Sept. 28.
Erickson, Henry R., Minneapolis, Minn. Double parallel spray bar. 2,330,568; Sept. 28.
Erickson, Stephen E., Springdale, Conn., assignor to Chemical Construction Corporation, New York, N. Y. Beneficiation of low grade coal. 2,330,479; Sept. 28.
Esnault-Pelterie, Robert, Boulogne-Billancourt, France; vested in the Alien Property Custodian. Apparatus for controlling land, marine, and aerial vehicles. 2,330,569; Sept. 28.
Estey, Roger S. (See Bennett, A. H., and Estey.)
Estey, Roger S., Buffalo, and Kennard W. Harper, East Aurora, assignors to Spencer Lens Company, Buffalo, N. Y. Spectrometer. 2,330,694; Sept. 28.

Etten, Nicholas L., Waterloo, Iowa. Wringer roll stop. 2,330,480; Sept. 28.
Etten, Nicholas L., Waterloo, Iowa. Constant pressure wringer. 2,330,481; Sept. 28.
Evans, Arthur G., Canton, Ill., assignor to International Harvester Company. Agricultural implement. 2,330,272; Sept. 28.
Eweson, Eric W., New York, N. Y. Eye washing device. 2,330,695; Sept. 28.
Exiner, Alexander R., Evanston, Ill. Window. 2,330,696; Sept. 28.
Fabriksaktiebolaget Haldataxametern. (See Hampf, Edvin, assignor.)
Fafnir Bearing Company, The. (See Potter, Howell L., assignor.)
Fageol, William B., assignor to Twin Coach Company, Kent, Ohio. Vehicle spring suspension. 2,330,482; Sept. 28.
Fairchild Engine and Airplane Corporation. (See Gregory, A. T., and De Pew, assignors.)
Farnsworth Television and Radio Corporation. (See Knox, Arthur L., assignor.)
Farr, Charles L. (See Longman, S., and Farr.)
Farrow, Frederick R., Jr., Audubon, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Electroacoustic transducer. 2,330,697; Sept. 28.
Faus, Harold T. (See Arey, R. G., and Faus.)
Fay, Horace B., Willoughby, assignor to The Stratmore Company, Cleveland, Ohio. Method and apparatus for belt surfacing. 2,330,208; Sept. 28.
Febrey, Harold H., South Orange, N. J., assignor to The American Steel and Wire Company of New Jersey. Rail bond terminal. 2,330,483; Sept. 28.
Federal Business Machines Corporation. (See Elliott, Edward L., assignor.)
Federal File Envelope Co. (See Winokar, Maurice, assignor.)
Fiedler, Hermann. (See Schonfeld, R., and Fiedler.)
Filachione, Edward M., Akron, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Halo acetal. 2,330,570; Sept. 28.
Finazzo, George B., St. Louis, Mo. Light fixture. 2,330,484; Sept. 28.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Manufacture of sandals. 2,330,273; Sept. 28.
Fisher, Harold W., Cranford, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Plastic composition. 2,330,698; Sept. 28.
Fiske, Augustus H., Jr., Cataumet, Mass., assignor to American Smelting and Refining Company, New York, N. Y. Machine and method for marking cast or molded articles. 2,330,274; Sept. 28.
Flint, Clarence H., Westport, assignor to Peter Paul, Inc., Naugatuck, Conn. Making chewing gum. 2,330,571; Sept. 28.
Flamm, Alexander, Fairfield, Conn. Container carrier. 2,330,699; Sept. 28.
Florack, Joseph G., Hackensack, N. J. Flexible grinder or sander. 2,330,209; Sept. 28.
Florin, Philip, Inc. (See Berger, Benjamin S., assignor.)
Flynn, John A., and J. W. Ingersol, Tacoma, Wash., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Electrolytic alkali chlorine cell. 2,330,415; Sept. 28.
Folke, Bengt E., Mamaroneck, assignor to Nathan Manufacturing Company, New York, N. Y. Injector discharge control valve. 2,330,275; Sept. 28.
Ford Motor Company. (See McCarroll, R. H., Shaub, and Laird, assignors.)
Ford Motor Company. (See Shaub, F. G., McCloud, and Tiffany, assignors.)
Forward, Worthy J. F. (See Trosch, A., and Forward.)
Fossati, Francis N., El Cerrito, Calif., assignor to Standard Oil Company of California, San Francisco, Calif. Weight indicator. 2,330,432; Sept. 28.
Foster, Charles H. W., Marblehead, Mass. Bookcase. 2,330,276; Sept. 28.
Fox, Vernie A., Detroit, Mich. Safety device. 2,330,700; Sept. 28.
Frank, Herman L., Buffalo, N. Y. Device for use in examining teeth. 2,330,485; Sept. 28.
Frantz, John G., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Apparatus for fining molten glass. 2,330,343; Sept. 28.
Fraps, Anton W. (See Bauer, E. E., and Fraps.)
Freiberg, John L., Cincinnati, Ohio. Starting device for electric motors. 2,330,344; Sept. 28.
Frey, Walter, and P. Krekel, Brandenburg, Havel, Germany; vested in the Alien Property Custodian. Press and tool structure for forming cavities in metal plate. 2,330,572; Sept. 28.
Friden Calculating Machine Co., Inc. (See Moody, John L., assignor.)
Fritschle, Arthur, University City, Mo., assignor to American Smelting and Refining Company, New York, N. Y. Multiple-bar, self-dumping mold. 2,330,277; Sept. 28.
Froelecke, Ernst. (See Schaller, P., Froelecke, Meyer, Roelen, and Lüben.)
Fuller, Ernest W., Shaker Heights, assignor to The Acrotorque Company, Cleveland, Ohio. Drive mechanism. 2,330,486; Sept. 28.
Furedy, Frank, assignor to Sun-Kraft, Inc., Chicago, Ill. Lamp circuit. 2,330,433; Sept. 28.
G and A Laboratories, Inc. (See Hasselstrom, Torsten, assignor.)
Galey, Henry J., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass bending apparatus. 2,330,349; Sept. 28.
Garand, John C., Springfield, Mass., assignor to the Government of the United States of America as represented by the Secretary of War and his successors in office. Blank ammunition firing attachment for gas operated guns. 2,330,210; Sept. 28.
General Electric Company. (See Arey, R. G., and Faus, assignors.)
General Electric Company. (See Bauer, E. E., and Fraps, assignors.)
General Electric Company. (See Jewell, Richard G., assignor.)
General Electric Company. (See Kenefake, Edwin W., assignor.)
General Electric Company. (See Kuehni, Hans P., assignor.)
General Electric Company. (See Stratton, Jerry L., assignor.)
General Electric Company. (See Uhlrig, Harry W., assignor.)
General Electric Company. (See Warner, Wilbur W., assignor.)
General Fireproofing Company, The. (See Straubel, Clarence W., assignor.)
General Industries Company, The. (See Marsh, Orlo W., assignor.)
General Industries Company, The. (See Roe, Howard A., assignor.)
General Motors Corporation. (See Claytor, Edward M., assignor.)
General Motors Corporation. (See Hull, Raouel B., assignor.)
General Motors Corporation. (See Mann, Cecil A., assignor.)
General Printing Ink Corporation. (See Hill, Frederick W., assignor.)
General Railway Signal Company. (See Wight, Sedgwick N., assignor.)
Gerber, Dale C., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,330,701; Sept. 28.
Gibbs, Thomas B., assignor to G. W. Borg Corporation, Chicago, Ill. Timing apparatus for clocks and watches. 2,330,416; Sept. 28.
Gilbert & Barker Manufacturing Company. (See Grisé, Alfred L., assignor.)
Gillette Safety Razor Company. (See Harris, David H., assignor.)
Gillette Safety Razor Company. (See Testi, Nicholas, assignor.)
Gillisse, Edward, and C. Hendricks, assignors to Applied Arts Corporation, Grand Rapids, Mich. Ash receiver. 2,330,417; Sept. 28.
Gilmer, L. H., Co. (See Case, Richard Y., assignor.)
Gitzen, Joseph A., River Hills, Wis. Treating foundry sands. 2,330,418; Sept. 28.
Glassine Paper Company, The. (See Tuttle, John N., assignor.)
Gobin dit Daudé, Jean E. F., Neuilly, Seine, France; vested in the Alien Property Custodian. Snap fastener socket. 2,330,573; Sept. 28.
Golden State Company, Ltd. (See Peebles, David D., assignor.)
Goldsby, Arthur R. (See Skelton, W. E., Sensel, and Goldsby.)
Goldschmidt, Hans, Berkeley, Calif. Spool rack. 2,330,702; Sept. 28.
Goodrich, B. F., Company, The. (See Henderson, Donald E., assignor.)
Goodrich, B. F., Company, The. (See Judson, Robert H., assignor.)
Goodrich, B. F., Company, The. (See L'Hollier, Leslie H., assignor.)
Goodrich, B. F., Company, The. (See Miller, Donald J., assignor.)
Gordon, Julius M., Beaumont, Tex. Reel. 2,330,278; Sept. 28.
Goss Printing Press Company, The. (See Whitehead, William A., assignor.)
Grace, John H., assignor to R. H. Grace, Vancouver, British Columbia, Canada. Smelting apparatus. 2,330,487; Sept. 28.
Grace, Ronald H. (See Grace, John H., assignor.)
Gradisar, Albin A. (See Harper, K. W., Gradisar, Armagost, and Peck.)
Graesser, David A., Westfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine loop-taker. 2,330,350; Sept. 28.
Granstedt, Karl E., assignor to Aktiebolaget Formator, Stockholm, Sweden. Cigar machine. 2,330,574; Sept. 28.
Grant, Howard D. (See Barnebl, A. J., Grant, and Barnebl.)
Grauding, Karl R. L., Stuttgart, Germany; vested in the Alien Property Custodian. Tool. 2,330,575; Sept. 28.
Greaves-Walker, Arthur McK., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for use in the shaping of glass sheets or plates. 2,330,279; Sept. 28.

Gregory, Alfred T., and C. C. De Pew, assignors to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Air-cooled engine cylinder. 2,330,779; Sept. 28.
Griff, Robert D. (See Rasmussen, C. T., and Griff.)
Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Air separator control for liquid dispensing apparatus. 2,330,703; Sept. 28.
Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Hose nozzle. 2,330,704; Sept. 28.
Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Oil well pumping unit. 2,330,419; Sept. 28.
Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Cylinder. 2,330,420; Sept. 28.
Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Cylinder construction. 2,330,421; Sept. 28.
Hagerup-Larssen, Georg, New York, N. Y.; vested in the Alien Property Custodian. Aluminum furnace. 2,330,576; Sept. 28.
Halliburton Oil Well Cementing Company. (See Babcock, Earl, assignor.)
Hamblet, Marcia C., Kew Gardens, N. Y. Candle base and assembly. 2,330,705; Sept. 28.
Hampf, Edvin, Gothenburg, assignor to Fabriksaktiebolaget Haldataxametern, Halmstad, Sweden. Centering device for the cutting of sheet-metal disks. 2,330,577; Sept. 28.
Haney, Clifford I., Drummondville, Quebec, Canada, assignor to Celanese Corporation of America. Filter treatment. 2,330,211; Sept. 28.
Hankins, Frederick W., and W. J. Meyer, assignors to The Pennsylvania Railroad Company, Philadelphia, Pa. Buffing means for railway cars and the like. 2,330,706; Sept. 28.
Hansen, James M., Park Ridge, Ill. Machine for treating egg whites, etc. 2,330,422; Sept. 28.
Hansen, Merrill E., Silver Lake Village, assignor to American Anode Inc., Akron, Ohio. Making rubber articles. 2,330,351; Sept. 28.
Hanson, Roy E. (See Piazze, T. E., and Hanson.)
Hardacre, Richard W., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Production of pattern effects on acetate rayon. 2,330,707; Sept. 28.
Harlow, Frederick J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for withdrawing liquids from closed containers. 2,330,708; Sept. 28.
Harper, Kennard W. (See Estey, R. S., and Harper.)
Harper, Kennard W., A. A. Gradisar, and W. K. Armagost, Buffalo, and W. F. Peck, Snyder, assignors to Spencer Lens Company, Buffalo, N. Y. Projector. 2,330,709; Sept. 28.
Harris, David H., Brookline, assignor to Gillette Safety Razor Company, Boston, Mass. Hardness testing machine. 2,330,578; Sept. 28.
Harrison, Thomas H., Bolsover, near Chesterfield, England. Date indicator primarily for use with timepieces. 2,330,280; Sept. 28.
Hart, Ray W., Long Beach, Calif. Separator. 2,330,423; Sept. 28.
Harvey, Alexander T., Galveston, Tex. Mercury switch, 2,330,352; Sept. 28.
Hasselquist, Hugo S., Oak Park, Ill., and C. R. Nichols, Jr., assignors to Joseph Dixon Crucible Company, Jersey City, N. J. Clip. 2,330,281; Sept. 28.
Hasselstrom, Torsten, assignor to G and A Laboratories, Inc., Savannah, Ga. Process of hydrating turpentine and like matters. 2,330,579; Sept. 28.
Hathaway, Lawrence, Coventry, assignor to Coventry Climax Engines Limited, Coventry, Warwickshire, England. Portable engine-driven pump. 2,330,488; Sept. 28.
Hathaway, Lawrence. (See Lee, L. P., Hathaway, and Sawbridge.)
Hautsch, Hans, Meuselwitz, Thur, Germany; vested in the Alien Property Custodian. Preselecting gear change 2,330,580; Sept. 28.
Haycock, John. (See England, I. W., and Haycock.)
Hayes, Clyde B., Saratoga Springs, and H. J. Czech, Gloversville, assignors to Van Raalte Company, Inc., New York, N. Y. Stop means for textile machines. 2,330,212; Sept. 28.
Hazel-Atlas Glass Company. (See Biggs, Charles M., assignor.)
Hazeltine, Benjamin P., Chicopee Falls, and E. R. Derby, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Manufacture of continuous sheets or webs of plastic material. 2,330,282; Sept. 28.
Heart, Herbert L., Yonkers, and L. I. Davis, assignors to Otis Elevator Company, New York, N. Y. Electrical control system. 2,330,489; Sept. 28.
Hefel, Karl, Innsbruck, Austria; vested in the Alien Property Custodian. Power transmission. 2,330,581; Sept. 28.
Heltzel, John N., Warren, Ohio. Concrete road construction. 2,330,213; Sept. 28.
Heltzel, John N., Warren, Ohio. Joint and joint installing apparatus for concrete roads and the like. 2,330,214; Sept. 28.
Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Regeneration of catalysts. 2,330,710; Sept. 28.
Henderson, Donald E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Mixture of polymerized materials. 2,330,353; Sept. 28.
Hendricks, Cornelius. (See Gillisse, E., and Hendricks.)
Hepburn, John T., Toronto, Ontario, Canada. Shaping or cutting machine. 2,330,354; Sept. 28.
Hepp, Gerard, Eindhoven, Netherlands; vested in the Alien Property Custodian. Circuit arrangement. 2,330,582; Sept. 28.
Hershey, Harry E., Chicago, Ill., assignor to Automatic Electric Laboratories, Inc. Indicating system. 2,330,355; Sept. 28.
Hey, Henry W. (See Hill, E. G., and Hey.)
Heylandt, Christian W. P., R. Mewes, and A. Pomutz, Berlin-Britz, and Alfred Baer, Berlin-Schmargendorf, Germany; vested in the Alien Property Custodian. Sealing of rotary valves. 2,330,583; Sept. 28.
Hibbs, Earl D., Philadelphia, Pa. Hand grenade. 2,330,490; Sept. 28.
Higginbotham, Naomi W., Phoenix, Ariz. Bedspread roller. 2,330,711; Sept. 28.
Hildebrandt, Friedrich, Berlin-Charlottenburg, Germany, assignor to Schering Corporation, Bloomfield, N. J. Producing therapeutically valuable alcohols from germinal gland hormones. 2,330,215; Sept. 28.
Hilker, Earl E. (See Brisbane, E. C., and Hilker.)
Hill, Albert F., Longueuil, Quebec, Canada. Post driving head. 2,330,360; Sept. 28.
Hill, Edward G., and H. W. Hey, asignors to Hill Engineering Corporation, Richmond, Va. Clutch control mechanism. 2,330,424; Sept. 28.
Hill Engineering Corporation. (See Hill, E. G., and Hey, assignors.)
Hill, Frederick W., Rutherford, N. J., assignor to General Printing Ink Corporation, New York, N. Y. Inking arrangement for printing presses. 2,330,359; Sept. 28.
Hill, Joseph H., Company. (See Byrum, Roy L., assignor.)
Hilton, Lewis D., Houston, Tex. Packing ring. 2,330,425; Sept. 28.
Himmel Brothers Company, The. (See Drummond, F. E., and Bench, assignors.)
Hipple, James L., Canton, Ill., assignor to International Harvester Company. Tractor-mounted implement. 2,330,283; Sept. 28.
Hoagland, Frank O., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Toolhead for rifling machines. 2,330,584; Sept. 28.
Hoe, R., & Company. (See Huck, William F., asignor.)
Hoelscher, William G., Norwood, assignor to The American Tool Works Company, Cincinnati, Ohio. Radial drill. 2,330,426; Sept. 28.
Hoffman, David H., New York, N. Y. Locking device. 2,330,284; Sept. 28.
Hogencamp, Harold C. (See Clothier, S. L., and Hogencamp.)
Hoke, Harry A., Altoona, and N. E. Merrell, Norwood, assignors to The Pennsylvania Railroad Company, Philadelphia, Pa. Preventing locomotive wheel slippage. 2,330,712; Sept. 28.
Holbrook, George E., Wilmington, Del., and Louis Spiegler, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical compounds and making the same. 2,330,713; Sept. 28.
Holstein, Moise S., and T. T. Morrow, assignors to Oppenheimer Casing Co., Chicago, Ill. Combined shipping and display container. 2,330,585; Sept. 28.
Holt, John W., asignor, by mesne assignments, to O. A. Parker, Cleveland, Ohio. Wheel body for dual demountable rims. 2,330,285; Sept. 28.
Holt, Lee C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of thioaniline. 2,330,714; Sept. 28.
Hönel, Herbert, assignor, by mesne assignments, to Reichhold Chemicals, Inc., Detroit, Mich. Accelerating the hardening of hardenable resins and new composition of matter. 2,330,286; Sept. 28.
Honig, P., Commissioner of the Board for Economic and Financial Affairs of The Netherlands Indies, Surinam and Curacao, trustee. (See Braak, Hendrik R., assignor.)
Hooker Electrochemical Company. (See Burns, S. L., and Chesterfield, assignors.)
Hooker Electrochemical Company. (See Flynn, J. A., and Ingersol, assignors.)
Hooker Electrochemical Company. (See Maude, Aylmer H., assignor.)
Hoover Company, The. (See Berg, Quentin, assignor.)
Hoover Company, The. (See Gerber, Dale C., assignor.)
Hoover Company, The. (See Tooker, Kenneth O., assignor.)
Hoover, Herbert, Jr., Sierra Madre, and M. Swan, Pasadena, assignors to Consolidated Engineering Corporation, Los Angeles, Calif. Apparatus for seismic prospecting. 2,330,216; Sept. 28.
Hopfield, John J. (See Knight, M., and Hopfield.)
Hoppe, William, Longmeadow, assignor to National Bread Wrapping Machine Co., Springfield, Mass. Wrapper feed for wrapping machines. 2,330,715; Sept. 28.

Hornfeck, Anthony J., Cleveland, Ohio, assignor to Bailey Meter Company. Telemetric control system. 2,330,427; Sept. 28.
Horr, John V., North Tarrytown, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Collapsible cardboard display device. 2,330,287; Sept. 28.
Horvitz, Leo, assignor to Esme E. Rosaire, Houston, Tex. Geochemical prospecting. 2,330,716; Sept. 28.
Horvitz, Leo, assignor to Esme E. Rosaire, Houston, Tex. Geochemical prospecting. 2,330,717; Sept. 28.
Houck, Harry W. (See Morelock, O. J., and Houck.)
Houk, Alva L. (See Bock, L. H., and Houk.)
House, Kenneth R. (See Taylor, W. I., Olpin, and House.)
Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Method of and apparatus for producing bags. 2,330,361; Sept. 28.
Howe, Smith B., Grand Island, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Machine gun. 2,330,362; Sept. 28.
Huck, William F., Richmond Hill, assignor to R. Hoe & Co., Inc., New York, N. Y. Cylinder bearer lubricator. 2,330,491; Sept. 28.
Hughes, Ausker E., Wyandotte, H. B. Browne, Trenton, and H. F. Roderick, Grosse Isle, assignors, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Manufacture of calcium carbonate adhesive coatings. 2,330,428; Sept. 28.
Hull, Raouel B., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Voltage control apparatus. 2,330,429; Sept. 28.
Hunn, James V., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Manufacture of the phenol-aldehyde type of resins. 2,330,217; Sept. 28.
Hunt, Osben D. (See Coleman, R. H., and Hunt.)
Hurley, Earl H., Emporium, Pa. Portable climber. 2,330,288; Sept. 28.
Hürlimann, Ernst, assignor to Johann Hürlimann, Wil, Switzerland. Implement for working the soil. 2,330,586; Sept. 28.
Hürlimann, Johann. (See Hürlimann, Ernst, assignor.)
Hydrocarbon Synthesis Corporation. (See Schaller, P., Froelecke, Meyer, Roelen, and Lüben, assignors.)
Illinois Tool Works. (See Poupitch, Ougljesa J., assignor.)
Imperial Chemical Industries Limited. (See Hardacre, Richard W., assignor.)
Indian Motorcycle Company. (See du Pont, S. and B. B., assignors.)
Ingersol, John W. (See Flynn, J. A., and Ingersol.)
International Harvester Company. (See Evans, Arthur G., assignor.)
International Harvester Company. (See Hipple, James L., assignor.)
International Harvester Company. (See Lundberg, Gustave, E., assignor.)
International Harvester Company. (See McNamara, Gordon G., Jr., assignor.)
International Harvester Company. (See Morkoski, James, assignor.)
International Harvester Company. (See Mott, Carl W., assignor.)
International Harvester Company. (See Orendorff, John W., assignor.)
International-Stacey Corporation. (See Kendrick, John F., assignor.)
International Standard Electric Corporation. (See Quayle, Joshua C., assignor.)
Jackson, James O., Crafton, Pa. Abrasion resistant coating. 2,330,365; Sept. 28.
Jansen, John G., Chicago, Ill. Strength-testing machine. 2,330,492; Sept. 28.
Jasco, Incorporated. (See Fisher, Harold W., assignor.)
Jayne, David W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for preventing evaporation from oil storage tanks. 2,330,366; Sept. 28.
Jayne, David W., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Flotation reagent and process. 2,330,587; Sept. 28.
Jewell, Richard G., Swampscott, Mass, assignor to General Electric Company. Telemetering system. 2,330,588; Sept. 28.
Johnson, Ellsworth T. (See Coultas, W. J., and Johnson.)
Johnson, George D., assignor to S. Morgan Smith Company, York, Pa. Tapered plug valve. 2,330,493; Sept. 28.
Johnson, Oscar, Hadley, N. Y. Delivery receptacle. 2,330,367; Sept. 28.
Johnson, Vincent A., Evanston, Ill., assignor to Automatic Electric Laboratories, Inc. Indicating system. 2,330,358; Sept. 28.
Jolley, David A. (See Jolley, D. A., and (Scarborough, assignor).)
Jolley, David A., and J. P. Scarborough, Kannapolis, N. C., said Scarborough assignor to said Jolley. Coating apparatus for yarn holders. 2,330,494; Sept. 28.
Jones, Byron Q., United States Army, Fort Knox, Ky. Armored vehicle body. 2,330,218; Sept. 28.
Judson, Robert H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Antinoise brake structure. 2,300,368; Sept. 28.
Juell, Fredrik, Oslo, Norway; vested in the Alien Property Custodian. Method and device for separating solid substances from suspension. 2,330,589; Sept. 28.
Kallmann, Heinz E., New York, N. Y. Bank note. 2,330,718; Sept. 18.
Kantor, James, and E. Rosenberg, assignors to The Liquid Carbonic Corporation, Chicago, Ill. Label affixer. 2,330,430; Sept. 28.
Karges, Albert, Woodstock, Ontario, Canada. Range. 2,330,495; Sept. 28.
Karig, Horace E. (See Carlson, A. A., and Karig.)
Kaschke, Kurt, Berlin-Neukolln, Germany; vested in the Alien Property Custodian. Dust iron core. 2,330,590; Sept. 28.
Kaziska, Anthony, Fort Allegany, assignor to Pittsburgh Corning Corporation, Allegheny County, Pa. Making glass banks. 2,330,363; Sept. 28.
Keir, James M., Bronxville, N. Y., assignor to The Linde Air Products Company. Building up surfaces. 2,330,289; Sept. 28.
Keiser, Bernhard. (See De Groote, M., and Keiser.)
Kemmer, Paul H., Fairfield, Ohio. Reinforced metal covering for aircraft. 2,330,219; Sept. 28.
Kemper, Maxwell F., Los Angeles, Calif. Gate closure. 2,330,220; Sept. 28.
Kendall, William A., Hinsdale, Ill. Fixture and mounting bracket therefor. 2,330,591; Sept. 28.
Kendrick, John F., assignor to International-Stacey Corporation, Columbus, Ohio. Nozzle illuminating means. 2,330,592; Sept. 28.
Kenefake, Edwin W., Schenectady, N. Y., assignor to General Electric Company. High frequency communication system. 2,330,593; Sept. 28.
Kermer, Martin J., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Method and apparatus for concentrating liquids which upon concentration deposit crystals and leave a residual concentrated liquor. 2,330,221; Sept. 28.
Kershaw, Arthur G., and A. W. Simmons, King's Cross, London, England, assignors, by mesne assignments, to Westinghouse Air Brake Company, Pittsburgh, Pa. Control of fluid compressor systems. 2,330,364; Sept. 28.
Kidd, Benjamin H., Louisville, Ky. Stuffing machine. 2,330,496; Sept. 28.
Kiessling, Max. (See Parker, R. A., Kiessling, M. and M. J.)
Kiessling, Max J. (See Parker, R. A., Kiessling, M. and M. J.)
King, Harold B., Sunbury, Pa. Valve. 2,330,290; Sept. 28.
Kipphan, Erich, and Berta Siebert, Nurnberg, Germany; vested in the Alien Property Custodian. Dry rectifier. 2,330,594; Sept. 28.
Kirby, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dye intermediate. 2,330,291; Sept. 28.
Kishline, Floyd F., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Rocker arm support. 2,330,719; Sept. 28.
Klein, William C., Allentown, Pa. Trolley derailer. 2,330,780; Sept. 28.
Klotsch, Paul, assignor to The Crosley Corporation, Cincinnati, Ohio. Ignition system. 2,330,431; Sept. 28.
Knight, Milton, Perrysburg, and J. J. Hopfield, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Film holder and making the same. 2,330,292; Sept. 28.
Knox, Arthur L., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Tripping mechanism for record changing apparatus. 2,330,293; Sept. 28.
Komenda, Erwin, Stuttgart-Korntal, Germany; vested in the Alien Property Custodian. Laminated body. 2,330,595; Sept. 28.
Kotcher, Irwin, Brooklyn, N. Y. Filling machine. 2,330,596; Sept. 28.
Kotcher, Irwin, Brooklyn, N. Y. Receptacle capping apparatus. 2,330,597; Sept. 28.
Kramer, Edward H. (See Dierking, Lester H., assignor.)
Krekel, Paul. (See Frey, Walter, and Krekel.)
Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Filled container gassing apparatus. 2,330,598; Sept. 28.
Kuehni, Hans P., Schenectady, N. Y., assignor to General Electric Company. Thermal testing apparatus. 2,330,599; Sept. 28.
Kuhn, Richard, and R. Ströbele, Heidelberg, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. N-polyhydroxyalkylated amines of the benzene series. 2,330,222; Sept. 28.
Kuipers, Minne, Eindhoven, Netherlands; vested in the Alien Property Custodian. Discharge tube. 2,330,600; Sept. 28.
Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Aminothiazole from chloroacetal. 2,330,223; Sept. 28.
Laflamme, Rene M., Hull, Quebec, assignor to Canadian Cellucotton Products Company Limited, Toronto, Ontario, Canada. Cardboard container. 2,330,720; Sept. 28.
Laird, Joseph S. (See McCarroll, R. H., Shaub, and Laird.)

Lang, Paul W., Concord, N. H. Phonovision system. 2,330,225; Sept. 28.
Langmyhr, George J., Sarnia, Ontario, Canada, and J. M. Sharp, Oil City, Pa., said Langmyhr assignor to Standard Oil Development Company, said Sharp assignor to National Transit Pump & Machine Company. Conveying fluids containing solids. 2,330,781; Sept. 28.
Langner, Heinrich. (See Biniek, G., and Langner.)
Larmour, James J., West Orange, assignor to Plastic Inlays, Inc., Summit, N. J. Inlaid article and inlaying. 2,330,497; Sept. 28.
Larsen, Bernard M., Elizabeth, N. J., assignor to United States Steel Corporation of Delaware. Arc welding low-carbon steel with a carbon electrode. 2,330,601; Sept. 28.
Lazzell, Archie E., assignor to Reeves Pulley Company, Columbus, Ind. Belt splice. 2,330,434; Sept. 28.
Lazzell, Archie E., assignor to Reeves Pulley Company, Columbus, Ind. Wedge-plate belt splice. 2,330,435; Sept. 28.
Lear Avia, Inc. (See Lear, William P., assignor.)
Lear, William P., Dayton, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio. Quadrantal error corrector system. 2,330,226; Sept. 28.
Leavitt, James P. H., Wayne, and E. W. Wells, Philadelphia, Pa., assignors to Container Corporation of America, Chicago, Ill. Container. 2,330,294; Sept. 28.
Lederle Laboratories, Inc. (See Tiesler, Adolph E., assignor.)
Lee, Harry. (See Müller, R., and Lee.)
Lee, Leonard P., L. Hathaway, and A. Sawbridge, Coventry, England, assignors to Coventry Climax Engines Limited. Engine-driven centrifugal pump. 2,330,498; Sept. 28.
Lehfeldt, Wilhelm, Berlin-Siemensstadt, Germany; vested in the Alien Property Custodian. Control capacity circuits. 2,330,499; Sept. 28.
Leifer, Alfred, Berlin, Germany; vested in the Alien Property Custodian. Power supply circuit. 2,330,550; Sept. 28.
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Making insulated braces. 2,330,602; Sept. 28.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Leverett, Miles C., Houston, Tex., assignor to Standard Oil Development Company. Determining connate water content of cores. 2,330,721; Sept. 28.
Levy, Sydney J. (See Di Lucci, Anthony J., assignor.)
L'Hollier, Leslie H., Waltham, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Quickly removable boot. 2,330,224; Sept. 28.
Libbey-Owens-Ford Glass Company. (See Greaves-Walker, Arthur McK., assignor.)
Libbey-Owens-Ford Glass Company. (See Knight, M., and Hopfield, assignors.)
Libbey-Owens-Ford Glass Company. (See Ryan, J. D., and Watkins, assignors.)
Lieber, Eugene, Staten Island, N. Y., assignor to Standard Oil Development Company. Condensation product and preparing and using same. 2,330,722; Sept. 28.
Linde Air Products Company, The. (See Keir, James M., assignor.)
Lindquist, Roy, Baldwin, Wis. Feed collector. 2,330,295; Sept. 28.
Liquid Carbonic Corporation, The. (See Kantor, J., and Rosenberg, assignors.)
Locke, Sam P., Mexico, Mo. Water heater. 2,330,436; Sept. 28.
Locomotive Finished Material Company, The. (See Muchnic, Henry E., assignor.)
Lomax, Clarence E., Oak Park, and P. Bakker, Chicago, Ill., assignors to Automatic Electric Laboratories, Inc. Current supply system. 2,330,501; Sept. 28.
Longman, Stanley, Red Bank, and C. L. Farr, Cranford, N. J. Plastic packing. 2,330,502; Sept. 28.
Longoria, Antonio, South Euclid, Ohio. Process of welding metals electrically. 2,330,503; Sept. 28.
Lougheed, Wellington, Flint, Mich. Garment hanger. 2,330,723; Sept. 28.
Lovely, George W., Auburn, Ill., assignor to Sullivan Machinery Company. Mining apparatus. 2,330,437; Sept. 28.
Lüben, Robert. (See Schaller, P., Froelecke, Meyer, Roelen, and Lüben.)
Lubri-Zol Development Corporation, The. (See Prutton, Carl F., assignor.)
Lucas, Joseph, Limited. (See Watson, Ernest A., assignor.)
Lundberg, Gustave E., Riverside, Ill., assignor to International Harvester Company. Power transmitting device. 2,330,296; Sept. 28.
Lynch, Wallace M. V., Upper Darby, Pa. Vaporizer. 2,330,297; Sept. 28.
Lynn, George E., assignor to The Dow Chemical Company, Midland, Mich. Parasiticidal composition and method of preparation. 2,330,227; Sept. 28.
Lynn, George E. (See Dieter, C. E., Lynn, and Thiegs.)
Lyon, George A., Allenhurst, N. J. Die for drawing sheet metal articles. 2,330,228; Sept. 28.
MacDonald, James A., Glendale, assignor to J. U. Birnie, Los Angeles, Calif. Apparatus for producing coherent materials. 2,330,300; Sept. 28.

Mack, Gerry P., Jackson Heights, N. Y. Dispersion of polyisobutylene in aqueous mediums. 2,330,504; Sept. 28.
Magee Carpet Company, The. (See Taylor, Richard, assignor.)
Maher, William W., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Can end testing machine. 2,330,229; Sept. 28.
Mann, Cecil A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Apparatus for sintering powdered metals. 2,330,438; Sept. 28.
Mantell, Russell M., assignor to Aerovox Corporation, New Bedford, Mass. Dielectric liquid. 2,330,230; Sept. 28.
Marsh, Orlo W., assignor to The General Industries Company, Elyria, Ohio. Apparatus for molding plastic material. 2,330,369; Sept. 28.
Mason, Fred, Covington, Ky., assignor to Nutone Chimes Inc., New York, N. Y. Switch mechanism. 2,330,439; Sept. 28.
Matthias, Lynn H., Fox Point, assignor to Allen-Bradley Company, Milwaukee, Wis. Electric control circuit 2,330,505; Sept. 28.
Matthias, Lynn H., Fox Point, assignor to Allen-Bradley Company, Milwaukee, Wis. Snap switch construction. 2,330,506; Sept. 28.
Maude, Aylmer H., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Production of aqueous hydrogen chloride. 2,330,440; Sept. 28.
May, Everette L. (See Price, D., May, and Pickel.)
May, Verna, Senath, Mo. Gathering apparatus. 2,330,727; Sept. 28.
Mayer, Carl F., Lakewood, Ohio. Door for industrial ovens. 2,330,728; Sept. 28.
McCabe, Anthony L., Reading, Mass. Bracket. 2,330,507; Sept. 28.
McCarroll, Russell H., Dearborn, F. G. Shaub, Detroit, and J. S. Laird, assignors to Ford Motor Company, Dearborn, Mich. Magnesium production. 2,330,724; Sept. 28.
McCloud, Robert A. (See Shaub, F. G., McCloud, and Tiffany.)
McColl, Eli S., Long Beach, Calif. System for removing oil films from bodies of water. 2,330,508; Sept. 28.
McCollum, Henry J. De N., Chicago, Ill. Heating system. 2,330,298; Sept. 28.
McCullough, Otis J., Houston, Tex., assignor to McCullough Tool Company, Los Angeles, Calif. Gun tester. 2,330,509; Sept. 28.
McCullough Tool Company. (See McCullough, Otis J., assignor.)
McGrath, William L., Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,330,725; Sept. 28.
McKenna, Etta, et al. (See Donnelly, John F., assignor.)
McKinnis Foods. (See McKinnis, Ronald B., assignor.)
McKinnis, Ronald B., assignor, by mesne assignments, to Ronald B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla. Apparatus for filling containers. 2,330,726; Sept. 28.
McMillan, Robert J. (See Waldrip, H. E., and McMillan.)
McNally, Paul A., Washington, D. C. Angle measuring instrument. 2,330,603; Sept. 28.
McNamara, Gordon G., Jr., Chicago, Ill., assignor to International Harvester Company. Vehicle. 2,330,299; Sept. 28.
Medart Company, The. (See Brennan, Henry E., assignor.)
Melster, Gottfried. (See Voigt, A., and Melster.)
Meredith, Frederick W., and F. H. Owens, London, England, assignors to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England. Shock-withstanding bearing. 2,330,729; Sept. 28.
Mervis, Harry W., assignor to Capitol Renewable Fuse Company, Pittsburgh, Pa. Renewable electrical fuse. 2,330,231; Sept. 28.
Messner, Maximilian, Berlin, Germany; vested in the Alien Property Custodian. Cathode ray tube. 2,330,604; Sept. 28.
Mewes, Rudolf. (See Heylandt, C. W. P., Mewes, Pomutz, and Baer.)
Meyer, Karl. (See Schaller, P., Froelecke, Meyer, Roelen, and Luben.)
Meyer, Leo J., assignor to The Champion Pecan Machine Company, San Antonio, Tex. Machine for washing and steaming edible nuts. 2,330,605; Sept. 28
Meyer, Wendel J. (See Hankins, F. W., and Meyer.)
Middleton, Edmund B., Woodbridge, and G. A. Dawson, Stelton, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of alpha naphthoselenazoles. 2,330,791; Sept. 28.
Mieth, Herman, Louisville, Ky. Elastic tension cloth specifically adapted to musical instruments, air motors and airplanes. 2,330,441; Sept. 28.
Miller, Donald J., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus and method for manufacture of rubber tubing. 2,330,370; Sept. 28.
Miller, John A., De Kalb, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Producing forms for molding veneer. 2,330,371; Sept. 28.
Mills, Fred W., Mena, Ark. Resilient wheel. 2,330,301; Sept. 28.

Milwaukee Gas Specialty Company. (See Wantz, Clarence, assignor.)
Minneapolis-Honeywell Regulator Company. (See McGrath, William L., assignor.)
Mittendorf, William R., assignor to The Crosley Corporation, Cincinnati, Ohio. Retaining means. 2,330,372; Sept. 28.
Moat, Harry L., Wilmington, Del., and P. D. Troxler, Mahopac, N. Y., assignors to Atlas Powder Company, Wilmington, Del. Primer assembly. 2,330,232; Sept. 28.
Moffat, Robert, and L. J. Wright, Duquesne, Pa., assignors to Carnegie-Illinois Steel Corporation. Adjustable table for masonry saws. 2,330,510; Sept. 28.
Money, Benjamin F., assignor of thirty one-hundredths to C. R. Terry and thirty one-hundredths to A. Cohan, Tulsa, Okla. Method of and means for forming lock nuts. 2,330,511; Sept. 28.
Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)
Monsanto Chemical Company. (See Filachione, Edward M., assignor.)
Monsanto Chemical Company. (See Hazeltine, R. P., and Derby, assignors.)
Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)
Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,330,512; Sept. 28.
Moor, Herbert H. (See Pokorny, O. S., and Moor.)
Moore, Coleman B., Carroll Park, assignor to The Brown Instrument Company, Philadelphia, Pa. Integrating mechanism. 2,330,606; Sept. 28.
Moore, George A., Medford, Mass. Picture hook. 2,330,373; Sept. 28.
Morelock, Oliver J., Short Hills, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Adjusting and sealing resistance elements. 2,330,782; Sept. 28.
Morelock, Oliver J., Short Hills, and H. W. Houck, Livingston, assignors to Weston Electrical Instrument Corporation, Newark, N. J. Resistance element. 2,330,783; Sept. 28.
Morkoski, James, Canton, Ill., assignor to International Harvester Company. Tractor-mounted implement. 2,330,302; Sept. 28.
Morkoski, James, Canton, Ill., assignor to International Harvester Company. Power lift device. 2,330,303; Sept. 28.
Morris, Thomas C., Belmont, assignor to B. B. Chemical Co., Boston, Mass. Molded article and making the same. 2,330,233; Sept. 28.
Morrow, Timothy T. (See Holstein, M. S., and Morrow.)
Morway, Arnold J. (See Zimmer, J. C., and Morway.)
Mosshart, Donald J., Ardmore, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine gland apparatus. 2,330,730; Sept. 28.
Mote, Thomas H., Chicago, Ill., assignor to Automatic Electric Laboratories, Inc. Signaling system. 2,330,357; Sept. 28.
Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Agricultural implement. 2,330,304; Sept. 28.
Mott, Everett V. (See Rudd, M. A., Mott, and Rovere.)
Moyle, Clarence L., assignor to The Dow Chemical Company, Midland, Mich. Insecticides. 2,330,234; Sept. 28.
Muchnic, Henry E., assignor to The Locomotive Finished Material Company, Atchison, Kans. Truck bolster suspension means. 2,330,305; Sept. 28.
Müller, Richard, and H. Lee, Radebeul, near Dresden, Germany; vested in the Alien Property Custodian. Electrolyte paste and making same. 2,330,607; Sept. 28.
Murphy, Chalmer E., Cleveland Heights, assignor to Porcelain Steels, Inc., Cleveland, Ohio. Enameled tank. 2,330,306; Sept. 28.
Murray Corporation of America. (See Haberstump, Alfred H., assignor.)
Muster, Harold B. (See Allen, E. L., and Muster.)
Muster, Harold B. (See Schonitzer, R. I., Allen, and Muster.)
Nachtman, John S., Beaver, Pa. Preparing stock for coating and electroplating. 2,330,608; Sept. 28.
Nachtman, John S., Beaver, Pa. Procedure for brightening tin coatings. 2,330,609; Sept. 28.
Nagle, Harold J., et al. (See Englert, Walter J., assignor.)
Nagle, Reginald A., et al. (See Englert, Walter J., assignor.)
Nash-Kelvinator Corporation. (See Kishline, Floyd F., assignor.)
Nathan Manufacturing Company. (See Folke, Bengt E., assignor.)
National Blank Book Company. (See Schade, John, assignor.)
National Bread Wrapping Machine Co. (See Hoppe, William, assignor.)
National Cash Register Company, The. (See Robertson, W. H., and Eickman, assignors.)
National Metal Edge Box Company. (See Stanger, William D.)
National Oil Products Company. (See Price, D., May, and Pickel, assignors.)
National Rubber Machinery Co. (See Tornberg, Henning T., assignor.)
National Transit Pump & Machine Company. (See Langmyhr, G. J., and (Sharp, assignor).)
Natter, Otto, Hofingen, Leonberg, Germany; vested in the Alien Property Custodian. Needle valve and seat therefor. 2,330,610; Sept. 28.
Nelson, Dale H. (See Buckingham, W. D., and Nelson.)
Nelson, Henry A., De Kalb, Ill. Reverse twist barbwire machine. 2,330,611; Sept. 28.
Nero, Joseph E., Portland, Maine. Golf player's mask. 2,330,442; Sept. 28.
Newport Industries, Inc. (See Oliver, A. F., and Palmer, assignors.)
New Products Corporation. (See Banker, Oscar H., assignor.)
Nichols, Charles R., Jr. (See Hasselquist, H. S., and Nichols.)
Nichols, Emory D., Miami, Fla. Closure removing tool. 2,330,513; Sept. 28.
Niles-Bement-Pond Company. (See Hoagland, Frank O., assignor.)
Nitz, Herbert, Berlin, Germany; vested in the Alien Property Custodian. Subscriber's station for carrier frequency communication systems. 2,330,612; Sept. 28.
Noble, Harry M. (See Edmonds, A. H., and Noble.)
Norton, Calhoun, assignor to Arens Controls, Inc., Chicago, Ill. Control mechanism. 2,330,443; Sept. 28.
Novi Equipment Company. (See Adler, Herman G., assignor.)
Nüchterlein, Karl, Dresden, Germany; vested in the Alien Property Custodian. Light meter for cameras. 2,330,613; Sept. 28.
Nutone Chimes Inc. (See Mason, Fred, assignor.)
Ochsner, Jacob, Zurich, Switzerland. Refuse collecting vehicle. 2,330,614; Sept. 28.
Oelkers, Alfred H., New Braunfels, Tex., assignor to American Steel Foundries, Chicago, Ill. Truck. 2,330,784; Sept. 28.
Oestreich, Melvin R., Wright, Minn. Ski foot pad. 2,330,731; Sept. 28.
Oestrike, Elmer E., Detroit, Mich. Forming helmets. 2,330,732; Sept. 28.
O'Keefe, Charles, Nogales, Ariz. Smelting antimony ore. 2,330,307; Sept. 28.
Olaer Patent Company. (See Duval, Jean G. L., assignor.)
Olaszy, Joseph, New York, N. Y. Air terminal take-off device. 2,330,733; Sept. 28.
Oliver, Anthony F., and R. C. Palmer, assignors to Newport Industries, Inc., Pensacola, Fla. Treating tall oil. 2,330,792; Sept. 28.
Olpin, Henry C. (See Taylor, W. I., Olpin, and House.)
O'Neil, W. (See Roberts, Gerald G., assignor.)
Oppenheimer Casing Co. (See Holstein, M. S., and Morrow, assignors.)
Orendorff, John W., Canton, Ill., assignor to International Harvester Company. Covering wheel for planting equipment. 2,330,308; Sept. 28.
Ormsby, Erle S., St. Louis, Mo. Stoker. 2,330,309; Sept. 28.
Orner, Harry, Cleveland Heights, Ohio. Power transmission. 2,330,374; Sept. 28.
Orner, Harry, Cleveland Heights, Ohio. Automatic power transmission. 2,330,375; Sept. 28.
Ostermoor & Company. (See Bednarek, Peter C., assignor.)
Otis Elevator Company. (See Heart, H. L., and Davis, assignors.)
Owens, Francis H. (See Meredith, F. W., and Owens.)
Palmer, Robert C. (See Oliver, A. F., and Palmer.)
Paper Products. (See Tremblett, Verne K., assignor.)
Paragon Revolute Corporation. (See Sullivan, Harry H., assignor.)
Park, Everett O., Albany, Oreg. Rearview mirror for vehicles. 2,330,444; Sept. 28.
Parker, Joseph V., assignor to Callaway Mills, La Grange, Ga. Tufting machine. 2,330,615; Sept. 28.
Parker, Orrel A. (See Holt, John W., assignor.)
Parker Products Corporation. (See Parker, R. A., Kiessling, M., and M. J., assignors.)
Parker, Robert P., Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparation of biguanide, guanylurea, and their substitution products. 2,330,376; Sept. 28.
Parker, Roy T., Cleveland Heights, Ohio. Fluid dispensing means. 2,330,616; Sept. 28.
Parker, Rutledge A., M. and M. J. Kiessling, assignors to Parker Products Corporation, Waterbury, Conn. Upholstery construction. 2,330,617; Sept. 28.
Parsons, Alexander, assignor to Pillsbury Flour Mills Company, Minneapolis, Minn. Pouring spout. 2,330,310; Sept. 28.
Patton, James E., Shelbyville, assignor to Davenport-Woosley Processing Corporation, Chattanooga, Tenn. Knitted fabric. 2,330,445; Sept. 28.
Paul, Talbert W., assignor to Deere & Company, Moline, Ill. Slip clutch. 2,330,734; Sept. 28.
Paulsen, Henry C., Elizabeth, N. J., assignor to Standard Oil Development Company. Refining sulphur-containing hydrocarbon oils. 2,330,735; Sept. 28.
Paulson, Lewis T., Excelsior, Wis. Clamp. 2,330,736; Sept. 28.

Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Whip roll controlled letoff for looms. 2,330,514; Sept. 28.
Peck, William F. (See Harper, K. W. Gradisar, Armagost and Peck.)
Pedersen, John D., Jackson, Wyo. Rifle mechanism. 2,330,737; Sept. 28.
Peebles, David D., Berkeley, assignor to Golden State Company, Ltd., San Francisco, Calif. Classifying apparatus. 2,330,793; Sept. 28.
Pennsylvania Railroad Company, The. (See Hankins, F. W., and Meyer, assignors.)
Pennsylvania Railroad Company, The. (See Hoke, H. A., and Merrell, assignors.)
Peter Paul, Inc. (See Flint, Clarence H., assignor.)
Peters, John F., Leonia, N. J., assignor to American Can Company, New York, N. Y. Notching mechanism. 2,330,235; Sept. 28.
Peters, Melville F., Beltsville, and J. P. Boston, Garrett Park, Md. Device for measuring gas leakage. 2,330,236; Sept. 28.
Petrolite Corporation, Ltd. (See De Groote, Melvin, assignor.)
Petrolite Corporation, Ltd. (See De Groote, M., and Keiser, assignors.)
Pflasterer, George R., Greenville, assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway track circuit apparatus. 2,330,515; Sept. 28.
Phair, Robert S., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Electrical control system. 2,330,377; Sept. 28.
Philco Radio and Television Corporation. (See Farrow, Frederick R., Jr., assignor.)
Phillips, Paul D., Elmhurst, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Electric lighting fixture. 2,330,738; Sept. 28.
Phillips Petroleum Company. (See Crites, Wilbur J., assignor.)
Phillips Petroleum Company. (See Harlow, Frederick J., assignor.)
Piazze, Thomas E., Milwaukee, and R. E. Hanson, Wauwatosa, Wis., assignors, by mesne assignments, to Simplex Wrapping Machine Co., Oakland, Calif. Apparatus for producing bags. 2,330,446; Sept. 28.
Pickel, Frank D. (See Price, D., May, and Pickel.)
Pierce, Lewis B., Winthrop, Mass. Collapsible container and producing it. 2,330,311; Sept. 28.
Pillsbury Flour Mills Company. (See Parsons, Alexander, assignor.)
Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Hydraulic braking system. 2,330,739; Sept. 28.
Pittsburgh Corning Corporation. (See Kaziska, Anthony, assignor.)
Pittsburgh Plate Glass Company. (See Adams, Frederick W., assignor.)
Pittsburgh Plate Glass Company. (See Frantz, John G., assignor.)
Pittsburgh Plate Glass Company. (See Galey, Henry J., assignor.)
Pittsburgh Plate Glass Company. (See Smith, William G., assignor.)
Plain, Urban L., Minneapolis, Minn. Mouthpiece. 2,330,516; Sept. 28.
Plastic Inlays, Inc. (See Larmour, James J., assignor.)
Platz, Elwood T., assignor to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,330,237; Sept. 28.
Plumb, Edwin W., Morris, Conn. Portable electric hack saw. 2,330,618; Sept. 28.
Pneumatic Scale Corporation, Limited. (See Howard, Stanley R., assignor.)
Pokorny, Oldrich S., Sarnia, and H. H. Moor, Moore Township, Lambton County, Ontario, Canada, assignors to Standard Oil Development Company. Dewaxing process. 2,330,740; Sept. 28.
Poll, George A., Cincinnati, Ohio. Internal combustion engine. 2,330,378; Sept. 28.
Pomeranz, Harry C., New York, N. Y. Combined mailing wrapper and cover for magazines and the like. 2,330,619; Sept. 28.
Pomutz, Albert. (See Heylandt, C. W. P., Mewes, Pomutz, and Baer.)
Porcelain Steels, Inc. (See Murphy, Chalmer E., assignor.).
Posey, Walter W., East Lampeter Township, Lancaster County, Pa. Hydraulic gate valve. 2,330,447; Sept. 28.
Potter, Howell L., assignor to The Fafnir Bearing Company, New Britain, Conn. Assembling retainers. 2,330,741; Sept. 28.
Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Fluid sealing device. 2,330,742; Sept. 28.
Powell, Edward V., Scarsdale, N. Y. Musical instrument. 2,330,379; Sept. 28.
Power Research Corporation. (See Bowers, Thomas A., assignor.)
Pressed Steel Company Limited. (See Berriman, Algernon E., assignor.)
Presser, Ernst, Berlin-Dahlem, Germany; vested in the Alien Property Custodian. Photovoltaic cell and manufacturing the same. 2,360,620; Sept. 28.
Price Battery Corporation. (See Biles, Georges S., assignor.)
Price, Donald, New York, N. Y., E. L. May, Newark, N. J., and F. D. Pickel, Bellmore, N. Y., assignors to National Oil Products Company, Harrison, N. J. Making pyrimidine compounds. 2,330,380; Sept. 28.
Proctor, M. E. (See Chiappinelli, Quirino, assignor.)
Prutton, Carl F., East Cleveland, assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricating composition. 2,330,238; Sept. 28.
Prutton, Carl F., Cleveland Heights, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio. Lubricant. 2,330,239; Sept. 28.
Quayle, Joshua C., Manley, Helsby, England, assignor to International Standard Electric Corporation. Electric communication cable. 2,330,381; Sept. 28.
Radio Corporation of America. (See Blaney, Arthur C., assignor.)
Radio Corporation of America. (See Collins, Milford E., assignor.)
Radio Corporation of America. (See Elliott, Charles I., assignor.)
Radio Corporation of America. (See Wing, Arthur K., Jr., assignor.)
Radke, Arthur, Cleveland, Ohio. Suction cleaner. 2,330,621; Sept. 28.
Ramshorn, Reinhard, Munich, Grafelfing, Germany; vested in the Alien Property Custodian. Guiding and controlling device for cowlings. 2,330,622; Sept. 22.
Raney, Ben, Jr., Linton, Ind. Starting and operating fluorescent and mercury arc lamps. 2,330,312; Sept. 28.
Rantasa, Jakob, Vienna, Germany; vested in the Alien Property Custodian. Cross-country motor vehicle. 2,330,623; Sept. 28.
Rasmussen, Clarence T., Moline, and R. D. Griff, Rock Island, assignors to Deere & Company, Moline, Ill. Beet lifter. 2,330,743; Sept. 28.
Rathbun, Merrill L., Salamanca, N. Y. Receptacle. 2,330,624; Sept. 28.
Raynor, Arthur E., Rockville Centre, N. Y., assignor to The Babcock & Wilcox Company, Newark, N. J. Steam generator. 2,330,240; Sept. 28.
Real Silk Hosiery Mills, Inc. (See Cobert, Arthur J., assignor.)
Reaume, Lawrence W., assignor to River Raisin Paper Company, Monroe, Mich. Packaging means for shipping articles in containers. 2,330,448; Sept. 28.
Reed, John, Des Moines, Iowa. Mop holder. 2,330,744; Sept. 28.
Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Belt splice. 2,330,449; Sept. 28.
Reeves Pulley Company. (See Lazzell, Archie E., assignor.)
Reeves Pulley Company. (See Reeves, Paul B., assignor.)
Reichhold Chemicals, Inc. (See Honel, Herbert, assignor.)
Reimann, William H., Hialeah, Fla. Conveyer. 2,330,745; Sept. 28.
Reppmann, Wilhelm B., Oss, Netherlands; vested in the Alien Property Custodian. Filter. 2,330,625; Sept. 28.
Revelli, Gino, Rome, Italy; vested in the Alien Property Custodian. Elevator for repetition and automatic firearms. 2,330,626; Sept. 28.
Reynolds, Kenneth J., La Porte, Ind. Extensible tray for upholstered furniture. 2,330,627; Sept. 28.
Richards, Clement E., Muncie, Ind. Vise. 2,330,382; Sept. 28.
Riedel, Ferdinand. (See Decker, G., and Riedel.)
Rigandi, Joseph R., Westerleigh, N. Y. Fishing lure. 2,330,517; Sept. 28.
River Raisin Paper Company. (See Reaume, Lawrence W., assignor.)
Roberts, Gerald G., assignor to W. O'Neil, Akron, Ohio. Radio receiving device. 2,330,241; Sept. 28.
Robertson, William H., and W. E. Eickman, assignors to The National Cash Register Company, Dayton, Ohio. Transfer mechanism. 2,330,450; Sept. 28.
Robinson, James M., New York, N. Y. Weighing device. 2,330,746; Sept. 28.
Rock-Ola Manufacturing Corporation. (See Dettle, Lawrence E., assignor.)
Roderick, Howard F. (See Hughes, A. E., Browne, and Roderick.)
Roe, Howard A., assignor to The General Industries Company, Elyria, Ohio. Record changer mechanism for phonographs. 2,330,383; Sept. 28.
Roediger, Joseph C., Brooklyn, N. Y., assignor, by mesne assignments, to Standard Catalytic Company. Manufacturing building blocks. 2,330,747; Sept. 28.
Roelen, Otto. (See Schaller, P., Froelecke, Meyer, Roelen, and Lüben.)
Röhm & Haas Company. (See Bock, L. H., and Houk, assignors.)
Romero, Alvin L., Downey, Idaho. Reamer. 2,330,242; Sept. 28.
Ronquist, Harry, Ketchikan, Alaska. Machine for beveling oars. 2,330,384; Sept. 28.
Roosen, H. D., Company. (See Bernstein, Isidor M., assignor.)
Rosaire, Esme E. (See Horvitz, Leo, assignor.)

Rosenberg, Edward. (See Kantor, J., and Rosenberg.)
Rothery, James S., Ilford, Egland. Hydraulic jacks. 2,330,518; Sept. 28.
Rovere, Lewis H. (See Rudd, M. A., Mott, and Rovere.)
Rubissow, George A., New York, N. Y. Accelerator pedal device. 2,330,385; Sept. 28.
Rudd, Maurice A., North Plainfield, E. V. Mott, Metuchen, N. J., and L. H. Rovere, Brooklyn, assignors to The Western Union Telegraph Company, New York, N. Y. Photographic facsimile recorder. 2,330,386; Sept. 28.
Ruska, Ernst, Berlin-Spandau, Germany; vested in the Alien Property Custodian. Magnetic lenses for electron-optical apparatus. 2,330,628; Sept. 28.
Ruttiman, Alfred, and H. N. Deane, assignors to Simplex Time Recorder Co., Gardner, Mass. Electrically operated workman's time recorder. 2,330,387; Sept. 28.
Ryan, Joseph D., and G. B. Watkins, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Laminated safety glass. 2,330,313; Sept. 28.
Safety Tank Truck Corporation, The. (See Scott, C. H. and P. H., assignors.)
Sagstetter, William H., Denver, Colo. Brake beam strut. 2,330,748; Sept. 28.
Sampsel, Arthr V., Mendota, assignor to Sears, Roebuck and Co., Chicago, Ill. Liquid metering device. 2,330,243; Sept. 28.
Sanford, Lottie. (See Church, Ira L., assignor.)
Santon, Elliot A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Stop for picker mechanisms. 2,330,519; Sept. 28.
Sargent & Company. (See Voight, Henry G., assignor.)
Saunders, James E., Sidon, Miss. Dual threshing cylinder. 2,330,451; Sept. 28.
Saval, Joseph A., Jamaica, assignor to Joseph Aronauer, Inc., Brooklyn, N. Y. Machine and method for assembling spiral spring structures. 2,330,244; Sept. 28.
Saveth, Louise R., Bronx, assignor to White Swan Uniforms, Inc., New York, N. Y. Lady's garment. 2,330,520; Sept. 28.
Sawbridge, Arthur. (See Lee, L. P., Hathaway, and Sawbridge.)
Scarborough, Joseph P. (See Jolley, D. A., and Scarborough.)
Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Ring binder construction. 2,330,749; Sept. 28.
Schaller, Paul, Oberhausen-Sterkrade, E. Froelecke, Dinslaken, K. Meyer, Schwarzheide, Ruhland, Oberlausitz, O. Roelen, Oberhausen-Holten, and R. Lüben, Oberhausen, Germany, assignors, by mesne assignments, to Hydrocarbon Synthesis Corporation, Linden, N. J. Process for recovering thorium from substances containing thorium and iron. 2,330,750; Sept. 28.
Scheide, Lester B., Hartford, Conn. Receptacle. 2,330,521; Sept. 28.
Schering Corporation. (See Hildebrandt, Friedrich, assignor.)
Schiller, Harold, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Making mercuric naphthenate. 2,330,452; Sept. 28.
Schmidt, Gottfried, Cologne, Germany; vested in the Alien Property Custodian. Machine for the automatic production of wire-tieings for packets. 2,330,629; Sept. 28.
Schönfeld, Richard, and H. Fiedler, Dresden, Germany; vested in the Alien Property Custodian. Production of candies. 2,330,630; Sept. 28.
Schonitzer, Rudolph I. (See Allen, E. L., and Muster, assignors.)
Schonitzer, Rudolph I. (See Schonitzer, R. I., (Allen and Muster, assignors).)
Schonitzer, Rudolph I., Shaker Heights, E. L. Allen, and H. B. Muster, Cleveland Heights, Ohio, said Allen and said Muster assignors to said Schonitzer. Connecting and guiding endless tracks and the like. 2,330,794; Sept. 28.
Schonitzer, Rudolph I., Shaker Heights, E. L. Allen, and H. B. Muster, Cleveland Heights, Ohio, said Allen and said Muster assignors to said Schonitzer. Connecting and guiding means for endless tracks and the like. 2,330,245; Sept. 28.
Schonitzer, Rudolph I., Shaker Heights, E. L. Allen, and H. B. Muster, Cleveland Heights, Ohio, said Allen and said Muster assignors to said Schonitzer. Connecting and guiding means for endless tracks and the like. 2,30,246; Sept. 28.
Schutz, Henry, Margate City, N. J. Chassis truss bar. 2,330,522; Sept. 28.
Schwartz, George L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of nonwoven fabrics. 2,330,314; Sept. 28.
Schweich, Joseph H., Clayton, Mo. Gown. 2,330,315; Sept. 28.
Scott, Carlyle H., Forest Hills, and P. H. Scott, Flushing, assignors to The Safety Tank Truck Corporation, New York, N. Y. Closure for truck tanks and the like. 2,330,247; Sept. 28.
Scott-Paine, Hubert, Greenwich, Conn. Engine controlling means. 2,330,388; Sept. 28.
Scott, Paul H. (See Scott, C. H., and P. H.)
Séailles, Jean C., Paris, France; vested in the Alien Property Custodian. Manufacturing sulphurous anhydride, alumina, and cements using sulphates of calcium. 2,330,631; Sept. 28.
Sears, Roebuck and Co. (See Sampsel, Arthur V., assignor.)
Sedlon, Vincent J. (See Dekome, A. E. and H. C., and Sedlon.)
Seligman, Roger A. L., Paris, France; vested in the Alien Property Custodian. Means of radiating heat. 2,330,632; Sept. 28.
Sensel, Eugene E. (See Skelton, W. E., Sensel, and Goldsby.)
Seyerle, Wilhelm, Waldenbronn, near Esslingen-on-the-Neckar, Germany; vested in the Alien Property Custodian. Wheel suspension, especially for motor cars. 2,330,633; Sept. 28.
Sharp, Jefferson M. (See Langmyhr, G. J., and Sharp.)
Shaub, Frank G. (See McCarroll, R. H., Shaub, and Laird.)
Shaub, Frank G., Detroit, R. A. McCloud, Dearborn, and B. E. Tiffany, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Reduction apparatus. 2,330,751; Sept. 28.
Shaw, John B., Torrance, Calif. Machine for rolling steel billets into merchant bars. 2,330,523; Sept. 28.
Shell Development Company. (See Smith, Sydney S., assignor.)
Sherwin-Williams Company, The. (See Hunn, James V., assignor.)
Shields, James E., Niagara Falls, assignor to Alox Corporation, New York, N. Y. Corrosion inhibitor. 2,330,524; Sept. 28.
Shields, James E., Niagara Falls, assignor to Alox Corporation, New York, N. Y. Corrosion inhibitor. 2,330,525; Sept. 28.
Shoemaker, William E., Freeport, assignor to Sinclair Refining Company, New York, N. Y. Gasoline pump. 2,330,634; Sept. 28.
Siebel, Friedrich W., Burscheid, Germany; vested in the Alien Property Custodian. Machine part subjected to sliding stress. 2,330,635; Sept. 28.
Siebert, Berta. (See Kipphan, E., and Siebert.)
Sikes, Samuel T., Jr., Houston, Tex., assignor to Standard Oil Development Company. Rate-of-penetration indicator. 2,330,752; Sept. 28.
Sikes, Samuel T., Jr., Houston, Tex., assignor to Standard Oil Development Company. Direct reading rate-of-penetration meter. 2,330,753; Sept. 28.
Simmons, Arthur W. (See Kershaw, A. G., and Simmons.)
Simplex Time Recorder Co. (See Ruttiman, A., and Deane, assignors.)
Simplex Wrapping Machine Co. (See Piazze, T. E., and Hanson, assignors.)
Sinclair Refining Company. (See Shoemaker, William E., assignor.)
Sinclair Refining Company. (See Teter, John W., assignor.)
Singer Manufacturing Company, The. (See Graesser, David A., assignor.)
Skelton, William E., E. E. Sensel, and A. R. Goldsby, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Isomerization of hydrocarbons. 2,330,754; Sept. 28.
Smith, A. O., Corporation. (See Gruetjen, Frederick A., assignor.)
Smith, Charles J., Schenectady, N. Y. Smoking pipe. 2,330,389; Sept. 28.
Smith, Charles J., Schenectady, N. Y. Gauge. 2,330,453; Sept. 28.
Smith, Howard, Bryn Mawr, Pa. Aerial bomb. 2,330,636; Sept. 28.
Smith, Rulo W., Auburn, Ind. Service terminator. 2,330,390; Sept. 28.
Smith, S., & Sons (Motor Accessories) Limited. (See Meredith, F. W., and Owens, assignors.)
Smith, S. Morgan, Company. (See Brisbane, E. C., and Hilker, assignors.)
Smith, S. Morgan, Company. (See Johnson, George D., assignor.)
Smith, Sydney S., Scarsdale, N. Y., assignor to Shell Development Company, San Francisco, Calif. Pipe-line control system. 2,330,755; Sept. 28.
Smith, William G., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Sash pulley brake. 2,330,391; Sept. 28.
Smith, William V., Salem, Mass., assignor to Sylvania Electric Products Inc. Electrode for gaseous discharge devices. 2,330,248; Sept. 28.
Socony-Vacuum Oil Company. (See Schiller, Harold, assignor.)
Sorensen, Andrew J., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Polarized relay control. 2,330,526; Sept. 28.
Spagnolo, Cosimo D., Brooklyn, N. Y. Retractible bayonet. 2,330,637; Sept. 28.
Spangler, Earl D. (See Byus, V., and Spangler.)
Spencer Lens Company. (See Bennett, A. H., and Estey, assignors.)
Spencer Lens Company. (See Estey, R. S., and Harper, assignors.)
Spencer Lens Company. (See Harper, K. W., Gradisar, Armagost, and Peck, assignors.)

Spiegler, Louis. (See Holbrook, G. E., and Spiegler.)
Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,330,249; Sept. 28.
Stafford, Frank A., Villisca, Iowa. Stock feeder. 2,330,454; Sept. 28.
Staley, Joseph H., Columbus, Ind. Centrifugally operated mercury switch. 2,330,392; Sept. 28.
Standard Catalytic Company. (See Roediger, Joseph C., assignor.)
Standard Oil Company of California. (See Fossati, Francis N., assignor.)
Standard Oil Development Company. (See Buckley, Stuart E., assignor.)
Standard Oil Development Company. (See Connolly, Gerald C., assignor.)
Standard Oil Development Company. (See Hemminger, Charles E., assignor.)
Standard Oil Development Company. (See (Langmyhr, G. J., assignor.), and Sharp.)
Standard Oil Development Company. (See Leverett, Miles C., assignor.)
Standard Oil Development Company. (See Lieber, Eugene, assignor.)
Standard Oil Development Company. (See Paulsen, Henry C., assignor.)
Standard Oil Development Company. (See Pokorny, O. S., and Moor, assignors.)
Standard Oil Development Company. (See Sikes, Samuel T., Jr., assignor.)
Standard Oil Development Company. (See Taggart, Millard S., Jr., assignor.)
Standard Oil Development Company. (See Tongberg, Carl O., assignor.)
Standard Oil Development Company. (See Welty, Albert B., Jr., assignor.)
Standard Oil Development Company. (See Zimmer, J. C., and Morway, assignors.)
Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel-attaching machine. 2,330,316; Sept. 28.
Stanger, Esther M., executrix. (See Stanger, William D.)
Stanger, William D., deceased, late of Seaside Park, N. J., by Ester M. Stanger, Seaside Park, N. J., executrix, assignor to L. Wolf, Elkins Park, E. Wolf, Dresher, H. A. Wolf, Jenkintown, and W. L. Wolf, Rydal, Pa., copartners, trading as National Metal Edge Box Company, Philadelphia, Pa. Metal edge box staying machine. 2,330,756; Sept. 28.
Stanolind Oil and Gas Company. (See Stuart, Robert W., assignor.)
Staudinger, Hanns P., Ewell, England, assignor to The Distillers Company Limited, Edinburgh, Scotland. Polymerization of styrene-type compounds. 2,330,527; Sept. 28.
Steckel, Clyde E., Allentown, Pa. Hinge. 2,330,455; Sept. 28.
Stewart, Howard R., Los Angeles, Calif. Foot contour templates. 2,330,317; Sept. 28.
Stewart-Warner Corporation. (See Williams, Lynn A., Jr., assignor.)
Stieb, Henry, Berkey, Ohio. Bomb. 2,330,393; Sept. 28.
Stout, Harold E., Reading, Pa. Hosiery forming and drying device. 2,330,757; Sept. 28.
Stratmore Company, The. (See Fay, Horace B., assignor.)
Stratton, Jerry L., Schenectady, N. Y., assignor to General Electric Company. Electric control circuits. 2,330,638; Sept. 28.
Straubel, Clarence W., assignor to The General Fireproofing Company, Youngstown, Ohio. Latch-controlled compressor. 2,330,318; Sept. 28.
Ströbele, Rudolf. (See Kuhn, R., and Ströbele.)
Stuart, Robert W., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Detection of salt in drilling fluids. 2,330,394; Sept. 28.
Stucke, John, Philadelphia, Pa. Rotary internal combustion motor. 2,330,528; Sept. 28.
Sullivan, Alice, et al. (See Donnelly, John F., assignor.)
Sullivan, Harry H., assignor to Paragon Revolute Corporation, Rochester, N. Y. Blue print drier. 2,330,395; Sept. 28.
Sullivan, Harry H., assignor to Paragon Revolute Corporation, Rochester, N. Y. Machine for processing light sensitive sheets. 2,330,396; Sept. 28.
Sullivan Machinery Company. (See Lovely, George W., assignor.)
Sun-Kraft, Inc. (See Furedy, Frank, assignor.)
Swan, Merrill. (See Hoover, H., Jr., and Swan.)
Swenson Evaporator Company. (See Barnebl, A. J., Grant, and Barnebl, assignors.)
Sylvania Electric Products Inc. (See Smith, William V., assignor.)
Sylvester, Kimmel A., Skokie, assignor to Teletype Corporation, Chicago, Ill. Telegraph apparatus. 2,330,250; Sept. 28.
Taggart, Millard S., Jr., Houston, Tex., assignor to Standard Oil Development Company. Geochemical prospecting. 2,330,758; Sept. 28.
Taylor, Clyde B. (See Allen, F. M., and Taylor.)
Taylor, Richard, Cambridge, Mass., assignor to The Magee Carpet Company, Bloomsburg, Pa. Circuit controlling apparatus. 2,330,759; Sept. 28.
Taylor, William I., H. C. Olpin, and K. R. House, Spondon, near Derby, England, assignors to Celanese Corporation of America. Fireproofing textile materials. 2,330,251; Sept. 28.
Teletype Corporation. (See Sylvester, Kimmel A., assignor.)
Terry, Charles R., et al. (See Money, Benjamin F., assignor.)
Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Blade magazine. 2,330,252; Sept. 28.
Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor appliance. 2,330,639; Sept. 28.
Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Catalysis. 2,330,640; Sept. 28.
Texas Company, The. (See Skelton, W. E., Sensel, and Goldsby, assignors.)
Thiegs, Bernard J. (See Dieter, C. E., Lynn, and Thiegs.)
Thompson, Ralph B. (See Dryer, C. G., and Thompson.)
Thomsen, Alfred M., San Francisco, Calif. Cracking and distillation of oils. 2,330,760; Sept. 28.
Tiesler, Adolph E., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Preparation of 4-pyridine sulphonic acid. 2,330,641; Sept. 28.
Tiffany, Burton E. (See Shaub, F. G., McCloud, and Tiffany.)
Tongberg, Carl O., Westfield, N. J., assignor to Standard Oil Development Company. Chemical process. 2,330,761; Sept. 28.
Tooker, Kenneth O., Detroit, Mich., assignor to The Hoover Company, North Canton, Ohio. Molding machine. 2,330,762; Sept. 28.
Topinka, Joseph F., Cleveland, Ohio. Cable anchor. 2,330,456; Sept. 28.
Tornberg, Henning T., assignor to National Rubber Machinery Co., Akron, Ohio. Vulcanizer. 2,330,319; Sept. 28.
Townsend, Frank J., Pelham Manor, N. Y. Air duct assembly. 2,330,763; Sept. 28.
Trailer Company of America, The. (See Black, James J., assignor.)
Transit Research Corporation. (See Piron, Emil H., assignor.)
Tremblett, Verne K., assignor to Paper Products, Oconomowoc, Wis. Stationery package. 2,330,457; Sept. 28.
Trofimov, Lev A., Willoughby, Ohio. Variable-speed power unit. 2,330,397; Sept. 28.
Trosch, Alfred, Brighton, and W. J. F. Forward, assignors to Consolidated Machine Tool Corporation, Rochester, N. Y. Vertical boring mill. 2,330,529; Sept. 28.
Troth, John T., St. Davids, Pa. Ship propulsion. 2,330,764; Sept. 28.
Troxler, Paul D. (See Moat, H. L., and Troxler.)
Tubbs, Ira I., assignor to Margaret L. Tubbs, Mount Vernon, Iowa, as trustee. Shoe sole. 2,330,458; Sept. 28.
Tubbs, Margaret L., trustee. (See Tubbs, Ira I., assignor.)
Turner, William E. (See Boh, G. W., and Turner.)
Tuttle, John N., Philadelphia, assignor to The Glassine Paper Company, West Conshohocken, Pa. Paper laminating machine. 2,330,530; Sept. 28.
Tuttle, William R., Elma, Wash. Grain conveyer and storage tank. 2,330,642; Sept. 28.
Tweedie, Charles, Jefferson City, Mo. Shoe. 2,330,459; Sept. 28.
Twin Coach Company. (See Fageol, William B., assignor.)
Uffelmann, Emil, Hamm, Germany; vested in the Alien Property Custodian. Lining for rope- and driving pulleys. 2,330,643; Sept. 28.
Uhlrig, Harry W., Stratford, Conn., assignor to General Electric Company. Toaster. 2,330,644; Sept. 28.
Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)
Union Switch and Signal Company, The. (See Pflasterer, George R., assignor.)
Union Switch & Signal Company. (See Sorensen, Andrew J., assignor.)
United Shoe Machinery Corporation. (See Baxter, William L., assignor.)
United Shoe Machinery Corporation. (See Brostrom, Charles G., assignor.)
United Shoe Machinery Corporation. (See Cutler, Wallace M., assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporation. (See Standish, John F., assignor.)
United States Steel Corporation of Delaware. (See Larsen, Bernard M., assignor.)
Universal Oil Products Company. (See Barnes, Marion W., assignor.)
Universal Oil Products Company. (See Dryer, C. G., and Thompson, assignors.)
Universal Oil Products Company. (See Weiland, Jack N., assignor.)
Universal Window Company. (See Wiley, Esmond F., assignor.)

Van Andel, Alfred. (See Bennett, O. G., and Van Andel.)
Van Raalte Company, Inc. (See Hayes, C. B., and Czech, assignors.)
Vass, Stephen, New York, N. Y. Arch support. 2,330,398; Sept. 28.
Voegeli, Frederick B., assignor to William H. Bannon, Mansfield, Mass. Making fabric. 2,330,645; Sept. 28.
Voight, Henry G., Hamden, assignor to Sargent & Company, New Haven, Conn. Padlock. 2,330,765; Sept. 28.
Voigt, Albert, Berlin, and G. Melster, Bernau, near Berlin, Germany; vested in the Alien Property Custodian. Releasing device. 2,330,646; Sept. 28.
Volk, Paul, Berlin-Charlottenburg, Germany; vested in the Alien Property Custodian. Tracer control for material working machines. 2,330,647; Sept. 28.
von Soden, Adolph F., Long Beach, Calif. Identifying documents. 2,330,531; Sept. 28.
Waldrip, Harry E., and R. J. McMillan, St. Louis, Mo. Cigarette and cigar holder. 2,330,460; Sept. 28.
Wallace, John F. (See Bailey, Stacy P., assignor.)
Walsh, James F., Yonkers, N. Y., assignor to American Maize-Products Company. Making dextrose. 2,330,785; Sept. 28.
Walstrom, Emil A., assignor to Builders Safety Products, Inc., St. Louis Park, Minn. Builder's safety horse clamp. 2,330,766; Sept. 28.
Wantz, Clarence, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Safety switch. 2,330,461; Sept. 28.
War, Secretary of, Government of the United States of America as represented by, and his successors. (See Garand, John C., assignor.)
Warner, Wilbur W., Fort Wayne, Ind., assignor to General Electric Company. Reversing split phase motor control. 2,330,648; Sept. 28.
Watkins, George B. (See Ryan, J. D., and Watkins.)
Watson, Ernest A., assignor to Joseph Lucas Limited, Birmingham, England. Contact breaker for ignition apparatus. 2,330,320; Sept. 28.
Weaver, Calvin, Mechanicsburg, Ohio. Tractor driven corn shocker. 2,330,649; Sept. 28.
Weiche, Georg, Berlin-Reinickendorf, Germany; vested in the Alien Property Custodian. Charge former. 2,330,650; Sept. 28.
Weiland, Jack N., assignor to Universal Oil Products Company, Chicago, Ill. Regeneration of contact materials. 2,330,462; Sept. 28.
Welger, Theodore A., assignor to Whitehead Bros. Rubber Company, Trenton, N. J. Reinforced duck and rubber hose. 2,330,651; Sept. 28.
Wells, Earle W. (See Leavitt, J. P. H., and Wells.)
Welty, Albert B., Jr., Elizabeth, N. J., assignor to Standard Oil Development Company. Catalyst regeneration. 2,330,767; Sept. 28.
Western Union Telegraph Company, The. (See Buckingham, W. D., and Nelson, assignors.)
Western Union Telegraph Company, The. (See Rudd, M. A., Mott, and Rovere, assignors.)
Westinghouse Air Brake Company. (See Kershaw, A. G., and Simmons, assignors.)
Westinghouse Electric & Manufacturing Company. (See Mosshart, Donald J., assignor.)
Westinghouse Electric & Manufacturing Company. (See White, John E., assignor.)
Weston Electrical Instrument Corporation. (See Morelock, O. J., assignor.)
Weston Electrical Instrument Corporation. (See Morelock, O. J., and Houck, assignors.)
Whisnant, Clarence L. et al. (See Coleman, R. H., and Hunt, assignors.)
Whisnant, Ernest E., et al. (See Coleman, R. H., and Hunt, assignors.)
White, John E., Lilly, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Igniter. 2,330,768; Sept. 28.
White Swan Uniforms, Inc. (See Saveth, Louise R., assignor.)
Whitehead Bros. Rubber Company. (See Welger, Theodore A., assignor.)
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Belting. 2,330,253; Sept. 28.
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Article of manufacture. 2,330,254; Sept. 28.
Whitehead, William A., Preston, England, assignor to The Goss Printing Press Company, Chicago, Ill. Rotary printing press. 2,330,321; Sept. 28.
Whittenberg, Harry C. T., Louisville, Ky. Water cooler. 2,330,463; Sept. 28.
Wichner, Henry E., Brookfield Township, Trumbull County, Ohio. Duct for air conditioning systems. 2,330,769; Sept. 28.
Wiegand, Edwin L., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electrical heating element. 2,330,652; Sept. 28.
Wiegand, Edwin L., Company. (See Wiegand, Edwin L., assignor.)
Wight, Sedgwick N., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,330,532; Sept. 28.
Wiley, Esmond F., assignor to Universal Window Company, Berkeley, Calif. Window sash control mechanism. 2,330,533; Sept. 28.
Wiley, William R. (See Brown, Robert L., assignor.)
Wiley, William R., Birmingham, Mich. Clip construction. 2,330,770; Sept. 28.
Williams, Charles N. (See Cornell, E. S., and Williams.)
Williams, Harry E., and L. A. Durant, Chicago, Ill. Contact switch for ball rolling game. 2,330,771; Sept. 28.
Williams, Lynn A., Jr., Northfield, assignor to Stewart-Warner Corporation, Chicago, Ill. Heating apparatus. 2,330,322; Sept. 28.
Williams, William W. (See Brooker, L. G. S., and Williams.)
Wilson Engineering Corporation. (See Wilson, Lyndon F., assignor.)
Wilson, Lyndon F., assignor to Wilson Engineering Corporation, Chicago, Ill. Unit heater. 2,330,653; Sept. 28.
Winder, George L. (See Beal, C. L., and Winder.)
Winder, George L., Cuyahoga Falls, assignor to American Anode, Inc., Akron, Ohio. Distensible bag catheter. 2,330,399; Sept. 28.
Winder, George L., Cuyahoga Falls, assignor, by mesne assignments, to American Anode, Inc., Akron, Ohio. Making distensible bag catheters and the like. 2,330,400; Sept. 28.
Wing, Arthur K., Jr., Chatham, N. J., assignor to Radio Corporation of America. Cathode. 2,330,401; Sept. 28.
Winokar, Maurice, Chelsea, assignor to Federal File Envelope Co., Inc., Boston, Mass. Multiple filing pocket. 2,330,402; Sept. 28.
Winthrop Chemical Company, Inc. (See Kuhn, R., and Ströbele, asignors.)
Wodal, Francis A., Camden, and J. J. Wodal, West Collingswood, N. J. Cigarette package. 2,330,772; Sept 28.
Wodal, Joseph J. (See Wodal, F. A. and J. J.)
Wolf, Elias, et al. (See Stanger, William D., assignor.)
Wolf, Howard A. (See Stanger, William D., assignor.)
Wolf, Louis, et al. (See Stanger, William D., assignor.)
Wolf, Walter L., et al. (See Stanger, William D., assignor.)
Wood, Colinton N., Victoria, British Columbia, Canada. Muffler. 2,330,534; Sept. 28.
Woodford, Ira J., Philippe, W. Va. Fountain brush. 2,330,323; Sept. 28.
Wright, Leo J. (See Moffat, R., and Wright.)
Wurlitzer, Rudolph, Company, The. (See Miller, John A., assignor.)
Wyandotte Chemicals Corporation. (See Hughes, A. E., Browne, and Roderick, assignors.)
Younger, George W., Dorking, England. Device for determining length of walking sticks to suit purchasers. 2,330,535; Sept. 28.
Ziebolz, Herbert, Chicago, Ill., assignor to Askania, Regulator Company. Fluid impulse controller. 2,330,654; Sept. 28.
Zimmer, John C., Union, and A. J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company. Lubricant. 2,330,773; Sept. 28.
Zimmermann, Maximilian E., Los Angeles, Calif. Means for locking vehicles against self-propulsion. 2,330,536; Sept. 28.
Zucker, Jacques, Zurich, Switzerland. Plant for recovery of volatile oil and grease solvents. 2,330,655; Sept. 28.
Zunzer, Adolf, Waldshut, Hochrhein, Germany; vested in the Alien Property Custodian. Clearing device for air ducts in the lip of casting pots. 2,330,656; Sept. 28.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF SEPTEMBER, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aromatics, Recovery of pure. C. L. Dunn and R. B. McConaughy. Re. 22,379; Sept. 28.
Link chain. H. Hollmann. Re. 22,380; Sept. 28.
Accounting machine. H. P. Mixer. Re. 22,381; Sept. 28.
Rock drill. C. F. Osgood. Re. 22,382; Sept. 28.

LIST OF PLANT INVENTIONS

Rose plant. R. L. Byrum. 601; Sept. 28.

LIST OF DESIGN INVENTIONS

Blouse. H. Pons. 136,416; Sept. 28.
Buckle. P. W. White. 136,412–15; Sept. 28.
Coat, House. L. Surenson. 136,409; Sept. 28.
Coffee and tea maker, Combined. F. E. Wolcott. 136,404; Sept. 28.
Dial, Thermometer. G. E. Ford. 136,400; Sept. 28.
Frame, Eyeglass. J. Bendix and E. Halouze. 136,405; Sept. 28.
Lace, Embroidered. J. Wiener. 136,403; Sept. 28.
Light, Portable aerodrome. H. A. Cline. 136,406; Sept. 28.
Ring, Finger. A. Sager. 136,401; Sept. 28.
Shoe. G. A. Gleason. 136,408; Sept. 28.
Slip. S. Wolf. 136,417; Sept. 28.
Tag. M. and J. Levine. 136,411; Sept. 28.
Tailstock. J. Srofe. 136,402; Sept. 28.
Tool, Wire fence. A. D. Duncan. 136,407; Sept. 28.
Washer and wringer drive housing, Combined. M. M. Jackson. 136,410; Sept. 28.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF SEPTEMBER, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting machine. O. Barthelmes. 2,330,543; Sept. 28.
Acid, Preparation of 4-pyridine sulphonic. A. E. Tiesler. 2,330,641; Sept. 28.
Adhesive coatings, Manufacture of calcium carbonate. A. E. Hughes, H. B. Browne, and H. F. Roderick. 2,330,428; Sept. 28.
Agricultural implement. A. G. Evans. 2,330,272; Sept. 28.
Agricultural implement. C. W. Mott. 2,330,304; Sept. 28.
Air conditioning system. W. L. McGrath. 2,330,725; Sept. 28.
Aircraft, Multirotor. H. S. Campbell. 2,330,204; Sept. 28.
Air duct assembly. F. J. Townsend. 2,330,763; Sept. 28.
Air tube and burner head for oil burners and the like. R. W. Beckett. 2,330,191; Sept. 28.
Alkali chlorine cell, Electrolytic. J. A. Flynn and J. W. Ingersol. 2,330,415; Sept. 28.
Alpha, beta-unsaturated ketones as drying accelerators for oil modified coatings. M. E. Cupery. 2,330,337; Sept. 28.
Alpha naphthoselenazoles, Preparation of. E. B. Middleton and G. A. Dawson. 2,330,791; Sept. 28.
Aluminum furnace. G. Hagerup-Larssen. 2,330,576; Sept. 28.
Aminothiazole from chloroacetal. L. P. Kyrides. 2,330,223; Sept. 28.
Anchor, Cable. J. F. Topinka. 2,330,456; Sept. 28.
Angle measuring instrument. P. A. McNally. 2,330,603; Sept. 28.
Anhydride, alumina and cements using sulphates of calcium, Manufacturing, sulphurous. J. C. Seailles. 2,330,631; Sept. 28.
Antimony ore, Smelting. C. O'Keefe. 2,330,307; Sept. 28.
Apparatus for controlling land, marine, and aerial vehicles. R. Esnault-Pelterie. 2,330,569; Sept. 28.
Apparatus for dispensing hypochlorites. W. S. Bachman. 2,330,328; Sept. 28.
Apparatus for filling containers. R. B. McKinnis. 2,330,726; Sept. 28.
Apparatus for fining molten glass. J. G. Frantz. 2,330,343; Sept. 28.
Apparatus for molding plastic material. O. W. Marsh. 2,330,369; Sept. 28.
Apparatus for preventing evaporation from oil storage tanks. D. W. Jayne. 2,330,366; Sept. 28.
Apparatus for producing bags. T. E. Piazze and R. E. Hanson. 2,330,446; Sept. 28.
Apparatus for producing coherent materials. J. A. MacDonald. 2,330,300; Sept. 28.
Apparatus for pumping fluids. W. J. Crites. 2,330,336; Sept. 28.
Apparatus for seismic prospecting. H. Hoover, Jr., and M. Swan. 2,330,216; Sept. 28.
Apparatus for sintering powdered metals. C. A. Mann. 2,330,438; Sept. 28.
Apparatus for use in the shaping of glass sheets or plates. A. McK. Greaves-Walker. 2,330,279; Sept. 28.
Apparatus for withdrawing liquids from closed containers. F. J. Harlow. 2,330,708; Sept. 28.
Arch support. S. Vass. 2,330,398; Sept. 28.
Armored vehicle body. B. Q. Jones. 2,330,218; Sept. 28.
Article of manufacture. W. Whitehead. 2,330,254; Sept. 28.
Ash receiver. E. Gillisee and C. Hendricks. 2,330,417; Sept. 28.
Bag catheter, Distensible. G. L. Winder. 2,330,399; Sept. 28.
Bag catheters and the like, Making distensible. G. L. Winder. 2,330,400; Sept. 28.
Bags, Method and apparatus for producing. S. R. Howard. 2,330,361; Sept. 28.
Bank, Coin. W. Englert. 2,330,478; Sept. 28.
Bar: *See*—
Chassis truss bar. Double parallel spray bar.
Bayonet, Retractible. C. D. Spagnolo. 2,330,637; Sept. 28.
Bean puller and hoe, Combination. I. L. Church. 2,330,679; Sept. 28.
Bearing: *See*—
Shock-withstanding bearing.
Beet lifter. C. T. Rasmussen and R. D. Griff. 2,330,743; Sept. 28.
Belt splice. A. E. Lazzell. 2,330,434; Sept. 28.
Belt splice. P. B. Reeves. 2,330,449; Sept. 28.
Belt splice, Wedge-plate. A. E. Lazzell. 2,330,435; Sept. 28.
Belt surfacing, Method and apparatus for. H. B. Fay. 2,330,208; Sept. 28.
Belting. W. Whitehead. 2,330,253; Sept. 28.
Bisector. E. E. Elwert. 2,330,414; Sept. 28.
Blocks, Manufacturing building. J. C. Roediger. 2,330,747; Sept. 28.
Blueprint drier. H. H. Sullivan. 2,330,395; Sept. 28.
Boat propulsion device. R. R. Boon. 2,330,332; Sept. 28.
Bomb. H. Stieb. 2,330,393; Sept. 28.
Bomb, Aerial. H. Smith. 2,330,636; Sept. 28.
Bookcase. C. H. W. Foster. 2,330,276; Sept. 28.
Boot, Quickly removable. L. H. L'Hollier. 2,330,224; Sept. 28.
Boring tool. C. B. De Vlieg. 2,330,692; Sept. 28.
Bottle partition or divider. G. W. Boh and W. E. Turner. 2,330,671; Sept. 28.
Braces, Making insulated. R. G. Le Tourneau. 2,330,602; Sept. 28.
Bracket. A. L. McCabe. 2,330,507; Sept. 28.
Brake: *See*—
Sash pulley brake.
Brake structure, Antinoise. R. H. Judson. 2,330,368; Sept. 28.
Breaker for ignition apparatus, Contact. E. A. Watson. 2,330,320; Sept. 28.
Brush, Fountain. I. J. Woodford. 2,330,323; Sept. 28.
Bucket, Replaceable lip dredge. J. Crouch. 2,330,409; Sept. 28.
Buffing means for railway cars and the like. F. W. Hankins and W. J. Meyer. 2,330,706; Sept. 28.
Builder's safety horse clamp. E. A. Walstrom. 2,330,766; Sept. 28.
Bumper for commercial vacuum cleaners. J. J. Colling. 2,330,684; Sept. 28.
Cable: *See*—
Electric communication cable.
Calculating machine. J. L. Moody. 2,330,512; Sept. 28.
Camera, Miniature. C. A. Clarke. 2,330,406; Sept. 28.
Can and testing machine. W. W. Maher. 2,330,229; Sept. 28.
Candies, Production of. R. Schönfeld and H. Fiedler. 2,330,630; Sept. 28.
Candle base and assembly. M. C. Hamblet. 2,330,705; Sept. 28.
Cardboard container. R. M. Laflamme. 2,330,720; Sept. 28.
Cardboard display device, Collapsible. J. V. Horr. 2,330,287; Sept. 28.
Carrier: *See*—
Container carrier.
Carton. C. I. Elliott. 2,330,346; Sept. 28.
Cartridge case. E. C. Bomar. 2,330,200; Sept. 28.
Cartridge fuse and switchgear incorporating the fuse. K. Dannenberg. 2,330,690; Sept. 28.
Case: *See*—
Cartridge case.
Catalysis. J. W. Teter. 2,330,640; Sept. 28.
Catalyst. R. Auchter. 2,330,539; Sept. 28.
Catalyst. G. C. Connolly. 2,330,685; Sept. 28.
Catalyst, Oxidation. O. G. Bennett and A. Van Andel. 2,330,664; Sept. 28.
Catalyst regeneration. A. B. Welty, Jr. 2,330,767; Sept. 28.
Catalysts, Renegeration of. C. E. Hemminger. 2,330,710; Sept. 28.
Catch assembly. E. Borchers. 2,330,403; Sept. 28.
Cathode. A. K. Wing, Jr. 2,330,401; Sept. 28.
Cathode ray tube. M. Messner. 2,330,604; Sept. 28.
Cementing plug. G. N. Anderson. 2,330,659; Sept. 28.
Cementing plug. C. E. Burt. 2,330,266; Sept. 28.
Centering device for the cutting of sheet-metal disks. A. Hampf. 2,330,577; Sept. 28.
Centrifugally operated mercury switch. J. H. Staley. 2,330,392; Sept. 28.
Chair: *See*—
Surgical chair.
Charger former. G. Weiche. 2,330,650; Sept. 28.
Chassis truss bar. H. Schutz. 2,330,522; Sept. 28.
Chemical compounds and making the same. G. E. Holbrook and L. Spiegler. 2,330,713; Sept. 28.
Chemical process. C. O. Tongberg. 2,330,761; Sept. 28.
Chewing gum, Making. C. H. Flint. 2,330,571; Sept. 28.
Cigar machine. K. E. Granstedt. 2,330,574; Sept. 28.
Cigarette and cigarette holder. H. E. Waldrip and R. J. McMillan. 2,330,460; Sept. 28.
Circuit: *See*—
Electric control circuit. Power supply circuit.
Lamp circuit.

Circuit arrangement. G. Hepp. 2,330,582; Sept. 28.
Circuit breaker. E. T. Platz. 2,330,237; Sept. 28.
Circuit breaking system, Automatic reclosing. E. E. Bauer and A. W. Fraps. 2,330,544; Sept. 28.
Circuit controlling apparatus. R. Taylor. 2,330,759; Sept. 28.
Circuits, Control capacity. W. Lehfeldt. 2,330,499; Sept. 28.
Clamp: *See*—
Builder's safety horse clamp.
Clamp. L. T. Paulson. 2,330,736; Sept. 28.
Classifying apparatus. D. D. Peebles. 2,330,793; Sept. 28.
Cleaner: *See*—
Suction cleaner.
Clearing device for air ducts in the lip of casting pots. A. Zunzer. 2,330,656; Sept. 28.
Clip. H. S. Hasselquist and C. R. Nichols, Jr. 2,330,281; Sept. 28.
Clip. R. L. Brown. 2,330,675; Sept. 28.
Clip construction W. R. Wiley. 2,330,770; Sept. 28.
Closure for truck tanks and the like. C. H. Scott and P. H. Scott. 2,330,247; Sept. 28.
Closure removing tool. E. D. Nichols. 2,330,513; Sept. 28.
Cloth specifically adapted to musical instruments, air-motors, and airplanes, Elastic tension. H. Mieth. 2,330,441; Sept. 28.
Clutch: *See*—
Slip clutch.
Clutch control mechanism. E. G. Hill and H. W. Hey. 2,330,424; Sept. 28.
Coal, Beneficiation of low grade. S. E. Erickson. 2,330,479; Sept. 28.
Coating, Abrasive resistant. J. O. Jackson. 2,330,365; Sept. 28.
Coating apparatus for yarn holders. D. A. Jolley and J. P. Scarborough. 2,330,494; Sept. 28.
Coating process and product. M. M. Brubaker. 2,330,333; Sept. 28.
Coatings, Procedure for brightening tin. J. S. Nachtman. 2,330,609; Sept. 28.
Collector, Feed. R. Lindquist. 2,330,295; Sept. 28.
Combined shipping and display container. M. S. Holstein and T. T. Morrow. 2,330,585; Sept. 28.
Combustion method for oil burners. R. W. Buckett. 2,330,190; Sept. 28.
Compressor, Latch-controlled. C. W. Straubel. 2,330,318; Sept. 28.
Compressor, Volumetric. L. Audubert. 2,330,540; Sept. 28.
Concentrating liquids which upon concentration deposit crystals and leave a residual concentrated liquor, Method and apparatus for. M. J. Kermer. 2,330,221; Sept. 28.
Concrete road construction. J. N. Heltzel. 2,330,213; Sept. 28.
Condensation product and preparing and using same. E. Lieber. 2,330,722; Sept. 28.
Connecting and guiding means for endless tracks and the like. R. I. Schonitzer, E. L. Allen and H. B. Muster. 2,330,245–6; Sept. 28.
Connecting and guiding means for endless tracks and the like. R. I. Schonitzer, E. L. Allen, and H. B. Muster. 2,330,794; Sept. 28.
Container: *See*—
Cardboard container.
Combined shipping and display container.
Shipping container.
Container. J. P. H. Leavitt and E. W. Wells. 2,330,294; Sept. 28.
Container and producing it, Collapsible. L. B. Pierce. 2,330,311; Sept. 28.
Container carrier. A. Flamm. 2,330,699; Sept. 28.
Control for liquid dispensing apparatus, Air separator. A. L. Grise. 2,330,703; Sept. 28.
Control mechanism. C. Norton. 2,330,443; Sept. 28.
Control mechanism, Window sash. E. F. Wiley. 2,330,533; Sept. 28.
Control of fluid compressor systems. A. G. Kershaw and A. W. Simmons. 2,330,364; Sept. 28.
Control system, Electrical. R. S. Phair. 2,330,377; Sept. 28.
Control system, Overdrive. E. M. Claytor. 2,330,407; Sept. 28.
Control system, Pipe-line. S. S. Smith. 2,330,755; Sept. 28.
Control system, Telemetric. A. J. Hornfeck. 2,330,427; Sept. 28.
Control track recording and synchronizing system. A. C. Blaney. 2,330,331; Sept. 28.
Conveyer. W. H. Reimann. 2,330,745; Sept. 28.
Cooler: *See*—
Water cooler.
Copyholder. E. L. Elliott. 2,330,776–8; Sept. 28.
Corn shocker, Tractor driven. C. Weaver. 2,330,649; Sept. 28.
Coupling: *See*—
Fluid coupling.
Covering wheel for planting equipment. J. W. Orendorff. 2,330,308; Sept. 28.
Cross-country motor vehicle. J. Rantasa. 2,330,623; Sept. 28.
Current supply system. C. E. Lomax and P. Bakker. 2,330,501; Sept. 28.
Cylinder. A. H. Haberstump. 2,330,420; Sept. 28.
Cylinder bearer lubricator. W. F. Huck. 2,330,491; Sept. 28.
Cylinder construction. A. H. Haberstump. 2,330,421; Sept. 28.
Cylinder, Dual threshing. J. E. Saunders. 2,330,451; Sept. 28.
Date indicator primarily for use with timepieces. T. H. Harrison. 2,330,280; Sept. 28.
Delivery receptacle. O. Johnson. 2,330,367; Sept. 28.
Desiccating apparatus. E. Le B. Benoit. 2,330,545; Sept. 28.
Device for determining length of walking sticks to suit purchaser. G. W. Younger. 2,330,535; Sept. 28.
Device for measuring gas leakage. M. F. Peters and J. P. Boston. 2,330,236; Sept. 28.
Device for use in examining teeth. H. L. Frank. 2,330,485; Sept. 28.
Dewatering of suspended solids. A. J. Barnebl, H. D. Grant, and A. C. Barnebl. 2,330,542; Sept. 28.
Dewaxing process. O. S. Pokorny and H. H. Moor. 2,330,740; Sept. 28.
Dextrose, Making. J. F. Walsh. 2,330,785; Sept. 28.
Die for drawing sheet metal articles. G. A. Lyon. 2,330,228; Sept. 28.
Dielectric liquid. R. M. Mantell. 2,330,230; Sept. 28.
Die press attachment. A. M. Cameron. 2,330,554; Sept. 28.
Differential wheel. C. L. Eksergian. 2,330,790; Sept. 28.
Discharge tube. M. Kuipers. 2,330,600; Sept. 28.
Dispenser: *See*—
Tablet dispenser.
Dispensing receptacle. H. C. Atterbury. 2,330,464; Sept. 28.
Documents, Identifying. A. F. von Soden. 2,330,531; Sept. 28.
Door: *See*—
Sliding door.
Door for industrial ovens. C. F. Mayer. 2,330,728; Sept. 28.
Double parallel spray bar. H. R. Erickson. 2,330,568; Sept. 28.
Drier: *See*—
Blue print drier.
Drill: *See*—
Radial drill.
Drive mechanism. E. W. Fuller. 2,330,486; Sept. 28.
Drive mechanism. R. W. Canfield. 2,330,677; Sept. 28.
Duck and rubber hose, Reinforced. T. A. Welger. 2,330,651; Sept. 28.
Duct for air conditioning systems. H. E. Wichner. 2,330,769; Sept. 28.
Dust iron core. K. Kaschke. 2,330,590; Sept. 28.
Dye intermediate. L. G. S. Brooker and W. W. Williams. 2,330,203; Sept. 28.
Dye intermediate. J. E. Kirby. 2,330,291; Sept. 28.
Dyeing effects, Novel. L. H. Bock and A. L. Houk. 2,330,775; Sept. 28.
Electric communication cable. J. C. Quayle. 2,330,381; Sept. 28.
Electric control circuit. L. H. Matthias. 2,330,505; Sept. 28.
Electric control circuits. J. L. Stratton. 2,330,638; Sept. 28.
Electric lighting fixture. P. D. Phillips. 2,330,738; Sept. 28.
Electrical control system. H. L. Heart and L. I. Davis. 2,330,489; Sept. 28.
Electrical heating element. E. L. Wiegand. 2,330,652; Sept. 28.
Electroacoustic transducer. F. R. Farrow, Jr. 2,330,697; Sept. 28.
Electrode for gaseous discharge devices. W. V. Smith. 2,330,248; Sept. 28.
Electrodes, Making. J. B. Brennan. 2,330,202; Sept. 28.
Electrolytic alkali chlorine cell. S. L. Burns and M. Chesterfield. 2,330,404; Sept. 28.
Electrolytic paste and making the same. R. Muller and H. Lee. 2,330,607; Sept. 28.
Electropolishing apparatus. F. E. Drummond and D. E. Bench. 2,330,562; Sept. 28.
Elevator for repetition and automatic firearms. G. Revelli. 2,330,626; Sept. 28.
Enameled tank. C. E. Murphy. 2,330,306; Sept. 28.
Engine: *See*—
Internal combustion engine.
Engine controlling means. H. Scott-Paine. 2,330,388; Sept. 28.
Engine cylinder, Air-cooled. A. T. Gregory and C. C. De Pew. 2,330,779; Sept. 28.
Engine-driven centrifugal pump. L. P. Lee, L. Hathaway, and A. Sawbridge. 2,330,498; Sept. 28.
Envelope, Quick-opening. E. B. Berkowitz. 2,330,666; Sept. 28.
Error corrector system, Quadrantal. W. P. Lear. 2,330,226; Sept. 28.

Explosive-carrier sensitive to airplane induced aerial disturbances. G. F. Archer. 2,330,325; Sept. 28.
Explosive trip for well devices. C. E. Burt. 2,330,265; Sept. 28.
Eye washing device. E. W. Eweson. 2,330,695; Sept. 28.
Fabric: *See*—
Knitted fabric.
Fabric, Making. F. B. Voegeli. 2,330,645; Sept. 28.
Fabrics, Manufacture of nonwoven. G. L. Schwartz. 2,330,314; Sept. 28.
Feed apparatus for profile copying machines. H. Ehrenberg. 2,330,567; Sept. 28.
Feed for wrapping machines, Wrapper. W. Hoppe. 2,330,715; Sept. 28.
Feeder, Stock. F. A. Stafford. 2,330,454; Sept. 28.
Ferric oxide and its preparation. B. F. Butler. 2,330,553; Sept. 28.
Fiber spinning apparatus. V. Aldaba. 2,330,537; Sept. 28.
Filling machine. I. Kotcher. 2,330,596; Sept. 28.
Film holder and making the same. M. Knight and J. J. Hopfield. 2,330,292; Sept. 28.
Filter. W. B. Reppmann. 2,330,625; Sept. 28.
Filter treatment. C. I. Haney. 2,330,211; Sept. 28.
Firing attachment for gas operated guns, Blank ammunition. J. C. Garand. 2,330,210; Sept. 28.
Fishing lure. J. R. Rigandi. 2,330,517; Sept. 28.
Fixture and mounting bracket therefor. W. A. Kendall. 2,330,591; Sept 28.
Flashlight. F. J. Braum. 2,330,673; Sept. 28.
Flotation reagent and process. D. W. Jayne, Jr. 2,330,587; Sept. 28.
Fluid dispensing means. R. T. Parker. 2,330,616; Sept. 28.
Fluid impulse controller. H. Ziebolz. 2,330,654; Sept. 28.
Fluid sealing device. O. J. Poupitch. 2,330,742; Sept. 28.
Fluids containing solids, Conveying. G. J. Langmyhr and J. M. Sharp. 2,330,781. Sept. 28.
Foot contour templates. H. R. Stewart. 2,330,317; Sept. 28.
Foundry sands, Treating. J. A. Gitzen. 2,330,418; Sept. 28.
Flexible pipe joint. F. M. Allen and C. B. Taylor. 2,330,197; Sept. 28.
Fluid control means. E. C. Brisbane and E. E. Hilker. 2,330,468; Sept. 28.
Fluid coupling. W. A. Eaton. 2,330,413; Sept. 28.
Fluids, Detection of salt in drilling. R. W. Stuart. 2,330,394; Sept. 28.
Fluids, Heater of. M. W. Barnes. 2,330,188; Sept. 28.
Frame for cycles and the like. M. Descos. 2,330,560; Sept. 28.
Fuel system for aircraft, High altitude. R. R. Curtis. 2,330,558; Sept. 28.
Furnace: *See*—
Aluminum furnace.
Fuse. A. J. Bowie. 2,330,467; Sept. 28.
Fuse, Renewable electrical. H. W. Mervis. 2,330,231; Sept. 28.
Galvanometer adjusting assembly. M. E. Collins. 2,330,335; Sept. 28.
Garment hanger. W. Lougheed. 2,330,723; Sept. 28.
Garment, Lady's. L. R. Saveth. 2,330,520; Sept. 28.
Gasoline pump. W. E. Shoemaker. 2,330,634; Sept. 28.
Gassing apparatus, Filled container. A. L. Kronquest. 2,330598; Sept. 28.
Gate closure. M. F. Kemper. 2,330,220; Sept. 28.
Gathering apparatus. V. May. 2,330,727; Sept. 28.
Gauge: *See*—
Planer gauge.
Gauge. C. J. Smith. 2,330,453; Sept. 28.
Gear: *See*—
Reversing gear.
Gear change, Preselecting. H. Hautsch. 2,330,580; Sept. 28.
Generator: *See*—
High-pressure steam generator. Steam generator.
Generator or boiler, Vapor. G. Decker and F. Riedel. 2,330,559; Sept. 28.
Geochemical prospecting. L. Horvitz. 2,330,716–7; Sept. 28.
Geochemical prospecting. M. S. Taggart, Jr. 2,330,758;
Glass articles, Making stained. H. H. Blau. 2,330,193;
Glass banks, Making. A. Kaziska. 2,330,363; Sept. 28.
Glass bending apparatus. H. J. Galey. 2,330,349; Sept. 28.
Glass, Fining of. F. W. Adams. 2,330,324; Sept. 28.
Glass, Laminated safety. J. D. Ryan and G. B. Watkins. 2,330,313; Sept. 28.
Governor structure. H. G. Adler. 2,330,657; Sept. 28.
Gown. J. H. Schweich. 2,330,315; Sept 28.
Grain conveyer and storage tank. W. R. Tuttle. 2,330,642; Sept. 28.
Grenade, Hand. E. D. Hibbs. 2,330,490; Sept. 28.
Grinder or sander, Flexible. J. G. Florack. 2,330,209; Sept. 28.
Guide for endless tracks. E. L. Allen and H. B. Muster. 2,330,195–6; Sept. 28.
Guide for endless tracks. E. L. Allen and H. B. Muster. 2,330,786; Sept. 28.
Guiding and controlling device for cowlings. R. Ramshorn. 2,330,622; Sept. 28.
Gun, Machine. S. B. Howe. 2,330,362; Sept. 28.
Hack saw, Portable electric. E. W. Plumb. 2,330,618; Sept. 28.
Halo acetal. E. M. Filachione. 2,330,570; Sept. 28.
Handle for mattresses. P. C. Bednarek. 2,330,192; Sept. 28.
Hanger: *See*—
Garment hanger.
Hardenable resins and new composition of matter, Accelerating the hardening of. H. Honel. 2,330,286; Sept. 28.
Hardness testing machine. D. H. Harris. 2,330,578; Sept. 28.
Head, Post driving. A. F. Hill. 2,330,360; Sept. 28.
Heat, Radiating. R. A. L. Seligman 2,330,632; Sept. 28.
Heater: *See*—
Water heater.
Heater for fluids. M. W. Barnes. 2,330,189; Sept. 28.
Heater of fluids. M. W. Barnes. 2,330,188; Sept 28.
Heater, Unit. L. F. Wilson. 2,330,653; Sept. 28.
Heating apparatus. L. A. Williams, Jr. 2,330,322; Sept. 28.
Heating system. H. J. DeN. McCollum. 2,330,298; Sept. 28.
Heaving line device. H. A. Calahan. 2,330,470; Sept. 28.
Heel-attaching machine. J. F. Standish. 2,330,316; Sept. 28.
Helments, Forming. E. E. Oestrike. 2,330,732; Sept. 28.
High frequency communication system. E. W. Kenefake. 2,330,593; Sept. 28.
High-pressure steam generator. W. Beyer. 2,330,547; Sept. 28.
Hinge. C. E. Steckel. 2,330,455; Sept. 28.
Holder: *See*—
Cigarette and cigarette holder. Key holder.
Mop holder.
Hook: *See*—
Picture hook.
Hosiery forming and drying device. H. E. Stout. 2,330,757; Sept. 28.
Hydraulic braking system. E. H. Piron. 2,330,739; Sept. 28.
Hydraulic gate valve. W. W. Posey. 2,330,447; Sept. 28.
Hydrocarbon oils, Refining sulphur-containing. H. C. Paulsen. 2,330,735; Sept. 28.
Hydrocarbons, Conversion of. C. G. Dryer and R. B. Thompson. 2,330,206; Sept. 28.
Hydrocarbons, Isomerization of. W. E. Skelton, E. E. Sensel, and A. R. Goldsby. 2,330,754; Sept. 28.
Hydrogen chloride, Method and means for production of aqueous. A. H. Maude. 2,330,440; Sept. 28.
Hydroxyalkyl celluloses, Esterification of. A. E. Broderick. 2,330,263; Sept. 28.
Igniter. J. E. White. 2,330,768; Sept. 28.
Ignition system. P. Klotsch. 2,330,431; Sept. 28.
Implement for working the soil. E. Hurlimann. 2,330,586; Sept. 28.
Indicating system. H. E. Hershey. 2,330,355; Sept. 28.
Indicating system. A. H. Belliveau. 2,330,356; Sept. 28.
Indicating system. V. A. Johnson. 2,330,358; Sept. 28.
Indicator: *See*—
Rate-of-penetration indicator. Weight indicator.
Inhibitor, Corrosion. J. E. Shields. 2,330,524–5; Sept. 28.
Injector discharge control valve. B. E. Folke. 2,330,275; Sept. 28.
Ink, Heat set. I. M. Bernstein. 2,330,667; Sept. 28.
Inking arrangement for printing presses. F. W. Hill. 2,330,359; Sept. 28.
Inlaid article and inlaying. J. J. Larmour. 2,330,497; Sept. 28.
Insecticide. C. L. Moyle. 2,330,234; Sept. 28.
Insecticide. C. E. Dieter, G. E. Lynn, and B. J. Thiegs. 2,330,340; Sept. 28.
Integrating mechanism. C. B. Moore. 2,330,606; Sept. 28.
Internal combustion engine. G. A. Poll. 2,330,378; Sept. 28.
Jacks, Hydraulic. J. S. Rothery. 2,330,518; Sept. 28.
Joint: *See*—
Flexible pipe joint.
Lubricated hinged shaft joint.
Joint and joint installing apparatus for concrete roads and the like. J. N. Heltzel. 2,330,214; Sept. 28.
Key holder. B. S. Berger. 2,330,546; Sept. 28.
Knitted article. O. H. Basch. 2,330,199; Sept. 28.
Knitted fabric J. E. Patton. 2,330,445; Sept. 28.
Knitting machine. R. H. Coleman and O. D. Hunt. 2,330,269; Sept. 28.
Label affixer. J. Kantor and E. Rosenberg. 2,330,430; Sept. 28.
Laminated body. E. Komenda. 2,330,595; Sept. 28.
Lamp circuit. F. Furedy. 2,330,433; Sept. 28.
Lamps, Starting and operating fluorescent and mercury arc. B. Raney, Jr. 2,330,312; Sept. 28.

Latex, Apparatus for dialyzing. H. R. Braak. 2,330,672; Sept. 28.
Lenses for electron-optical apparatus, Magnetic. E. Ruska. 2,330,628; Sept. 28.
Letoff for looms, Whip roll controlled. O. V. Payne. 2,330,514; Sept. 28.
Light fixture. G. B. Finazzo. 2,330,484; Sept. 28.
Light valve. W. D. Buckingham and D. H. Nelson. 2,330,334; Sept. 28.
Lighter, Cigar. G. F. Bahr. 2,330,187; Sept. 28.
Lining for rope- and driving pulleys. E. Uffelmann. 2,330,643; Sept. 28.
Liquid from gas, Separating. S. E. Buckley. 2,330,676; Sept. 28.
Liquid pressure remote control system. Q. H. Carlton. 2,330,678; Sept. 28.
Lifter: *See*—
Beet lifter.
Lock nuts, Forming. B. F. Money. 2,330,511; Sept. 28.
Locking device. D. H. Hoffman. 2,330,284; Sept. 28.
Locking vehicles against self-propulsion. M. E. Zimmermann. 2,330,536; Sept. 28.
Lubricant. C. F. Prutton. 2,330,239; Sept. 28.
Lubricant. J. C. Zimmer and A. J. Morway. 2,330,773; Sept. 28.
Lubricated hinged shaft joint. S. H. Brooks. 2,330,552; Sept. 28.
Lubricating composition. C. F. Prutton. 2,330,238; Sept. 28.
Lubricator: *See*—
Cylinder bearer lubricator.
Machine and method for assembling spiral spring structures. J. A. Saval. 2,330,244; Sept. 28.
Machine and method for marking cast or molded articles. A. H. Fiske, Jr. 2,330,274; Sept. 28.
Machine for beveling oars. H. Ronquist. 2,330,384; Sept. 28.
Machine for knitting hosiery blanks. A. J. Cobert. 2,330,681; Sept. 28.
Machine for processing light sensitive sheets. H. H. Sullivan. 2,330,396; Sept. 28.
Machine for rolling steel billets into merchant bars. J. B. Shaw. 2,330,523; Sept. 28.
Machine for the automatic production of wire tyings for packets. G. Schmidt. 2,330,629; Sept. 28.
Machine for treating egg whites, etc. J. M. Hansen. 2,330,422; Sept. 28.
Machine for treating hides and skins. W. M. Cutler. 2,330,271; Sept. 28.
Machine for washing and steaming edible nuts. L. J. Meyer. 2,330,605; Sept. 28.
Machine part subjected to sliding stress. F. W. Siebel. 2,330,635; Sept. 28.
Magazine, Blade. N. Testi. 2,330,252; Sept. 28.
Magnesium production. R. H. McCarroll, F. G. Shaub, and J. S. Laird. 2,330,724; Sept. 28.
Mask, Golf player's. J. E. Nero. 2,330,442; Sept. 28.
Masking structure for bowling alleys. E. J. Cloutier. 2,330,268; Sept. 28.
Materials, Mixture of polymerized. D. E. Henderson. 2,330,353; Sept. 28.
Materials, Regeneration of contact. J. N. Weiland. 2,330,462; Sept. 28.
Mechanism for glass forming machines, Safety. C. M. Biggs. 2,330,668; Sept. 28.
Mechanism for improving the dirigibility of ships, submarines, and aircraft. H. C. Briggs. 2,330,674; Sept. 28.
Mercuric naphthenate, Making. H. Schiller. 2,330,452; Sept. 28.
Mercury switch. A. T. Harvey. 2,330,352; Sept. 28.
Metal containers, Making sheet. I. W. England and J. Haycock. 2,330,207; Sept. 28.
Metal covering for aircraft, Reinforced. P. H. Kemmer. 2,330,219; Sept. 28
Metal edge box staying machine. W. D. Stanger. 2,330,756; Sept. 28.
Meter, Direct reading rate-of-penetration. S. T. Sikes, Jr. 2,330,753; Sept. 28.
Meter for cameras, Light. K. Nüchterlein. 2,330,613; Sept. 28.
Metering device, Liquid. A. V. Sampsel. 2,330,243; Sept. 28.
Mill: *See*—
Vertical boring mill.
Mining apparatus. G. W. Lovely. 2,330,437; Sept. 28.
Mirror for vehicles, Rearview. E. O. Park. 2,330,444; Sept. 28.
Mixing device. P. Alexander. 2,330,774; Sept. 28.
Mold for tire casings, Sectional. H. L. Baker. 2,330,329; Sept. 28.
Molded article and making the same. T. C. Morris. 2,330,233; Sept. 28.
Molding machine. K. O. Tooker. 2,330,762; Sept. 28.
Mop holder. J. Reed. 2,330,744; Sept. 28.
Motor: *See*—
Rotary internal combustion motor.
Motor control, Reversing split phase. W. W. Warner. 2,330,648; Sept. 28.
Motors, Starting device for electric. J. L. Freiberg. 2,330,344; Sept. 28.
Mounting: *See*—
Ophthalmic mounting.
Mounting for pins of brooches and the like, Pivot. Q. Chiappinelli. 2,330,788; Sept. 28.
Mouthpiece. U. L. Blain. 2,330,516; Sept. 28.
Mower, Lawn. R. D. Clemson. 2,330,680; Sept. 28.
Mower, Tractor. W. J. Coultas and E. T. Johnson. 2,330,687; Sept. 28.
Mud ejection control. C. C. Dyer. 2,330,564; Sept. 28.
Muffler. C. N. Wood. 2,330,534; Sept. 28.
Multiple-bar, self-dumping mold. A. Fritschle. 2,330,277; Sept. 28.
Musical instrument. E. V. Powell. 2,330,379; Sept. 28.
Non-overfill and vent construction for storage batteries. G. S. Biles. 2,330,669; Sept. 28.
Notching mechanism. J. F. Peters. 2,330,235; Sept. 28.
Note, Bank. H. E. Kallmann. 2,330,718; Sept. 28.
Nozzle, Hose. A. L. Grise. 2,330,704; Sept. 28.
Nozzle illuminating means. J. F. Kendrick. 2,330,592; Sept. 28.
N-polyhydroxyalkylated amines of the benzene series. R. Kuhn and R. Strobele. 2,330,222; Sept. 28.
Oil films from bodies of water, System for removing. E. S. McColl. 2,330,508; Sept. 28.
Oil, Treating tall. A. F. Oliver and R. C. Palmer. 2,330,792; Sept. 28.
Oils, Cracking and distillation of. A. M. Thomsen. 2,330,760; Sept. 28.
Ophthalmic mounting. E. M. Splaine. 2,330,249; Sept. 28.
Optical system, Reflecting. H. H. Blau. 2,330,194; Sept. 28.
Ordnance. C. B. Cox. 2,330,205; Sept. 28.
Oxyalkylated esters and making same, Certain water-soluble high molal. M. De Groote and B. Keiser. 2,330,472–3; Sept. 28.
Package. C. I. Elliott. 2,330,348; Sept. 28.
Package. S. I. Darrow. 2,330,691; Sept. 28.
Package, Cigarette. F. A. and J. J. Wodal. 2,330,772; Sept. 28.
Package closure, Means and method for. S. Bergstein. 2,330,466; Sept. 28.
Package, Stationery. V. K. Tremblett. 2,330,457; Sept. 28.
Packages. C. I. Elliott. 2,330,345; Sept. 28.
Packer, Well. R. C. Baker. 2,330,259; Sept. 28.
Packaging means for shipping articles in containers. L. W. Reaume. 2,330,448; Sept. 28.
Packing box and lining therefor. C. A. Biggs. 2,330,262; Sept. 28.
Packing ring. L. D. Hilton. 2,330,425; Sept. 28.
Pad: *See*—
Ski foot pad.
Padlock. H. G. Voight. 2,330,765; Sept. 28.
Paper laminating machine. J. N. Tuttle. 2,330,530; Sept. 28.
Paraffins, Isomerization of normal. S. F. Birch and J. H. Beynon. 2,330,787; Sept. 28.
Parasiticidal composition and preparation. G. E. Lynn. 2,330,227; Sept. 28.
Pattern controlled machine. A. H. Edmonds and H. M. Noble. 2,330,566; Sept. 28.
Pedal device, Accelerator. G. A. Rubissow. 2,330,385; Sept. 28.
Petroleum emulsions, Breaking. M. De Groote. 2,330,474; Sept. 28.
Phonovision system. P. W. Lang. 2,330,225; Sept. 28.
Photographic facsimile recorder. M. A. Rudd, E. Mott, and L. H. Rovere. 2,330,386; Sept. 28.
Photovoltaic cell and manufacturing the same. E. Presser. 2,330,620; Sept. 28.
Picture hook. G. A. Moore. 2,330,373; Sept. 28.
Pipe: *See*—
Smoking pipe.
Piston ring expander. A. J. Di Lucci. 2,330,475; Sept. 28.
Piston rings, Fabricating. T. A. Bowers. 2,330,549; Sept. 28.
Planer gauge. L. H. Dierking. 2,330,412; Sept. 28.
Plant for recovery of volatile oil and grease solvents. J. Zucker. 2,330,655; Sept. 28.
Plants, Fertilization of small. J. A. Cover. 2,330,408; Sept. 28.
Plastic composition. H. W. Fisher. 2,330,698; Sept. 28.
Plastic composition and packing device. J. G. L. Duval. 2,330,563; Sept. 28.
Plastic packing. S. Longman and C. L. Farr. 2,330,502; Sept. 28.
Plug: *See*—
Cementing plug.
Pocket, Multiple filing. M. Winokar. 2,330,402; Sept. 28.
Polarized relay control. A. J. Sorensen. 2,330,526; Sept. 28.
Polyisobutylene in aqueous mediums, Dispersion of. G. P. Mack. 2,330,504; Sept. 28.
Polymerization of styrene-type compounds. H. P. Staudinger. 2,330,527; Sept. 28.
Portable climber. E. H. Hurley. 2,330,288; Sept. 28.
Portable engine-driven pump. L. Hathaway. 2,330,488; Sept. 28.
Power lift device. J. Morkoski. 2,330,303; Sept. 28.
Power supply circuit. A. Leifer. 2,330,500; Sept. 28.
Power transmission. H. Orner. 2,330,374; Sept. 28.
Power transmission. K. Hefel. 2,330,581; Sept. 28.

Power transmission, Automatic. H. Orner. 2,330,375; Sept. 28.
Power transmission belt. R. Y. Case. 2,330,405; Sept. 28.
Power transmission pump. W. W. Eckart. 2,330,565; Sept. 28.
Power transmitting device. G. E. Lundberg. 2,330,296; Sept. 28.
Power unit, Variable-speed. L. A. Trofimov. 2,330,397; Sept. 28.
Preparation of biguanide, guanylurea, and their substitution products. R. P. Parker. 2,330,376; Sept. 28.
Press: *See*—
Rotary printing press.
Press and tool structure for forming cavities in metal plates. W. Frey and P. Krekel. 2,330,572; Sept. 28.
Pressure core taker. E. Babcock. 2,330,327; Sept. 28.
Primer assembly. H. L. Moat and P. D. Troxler. 2,330,232; Sept. 28.
Projector. K. W. Harper, A. A. Gradisar, and W. K. Armagost, and W. F. Peck. 2,330,709; Sept. 28.
Pump: *See*—
Engine-driven centrifugal pump.
Gasoline pump.
Portable engine-driven pump.
Portable transmission pump.
Pumping unit, Oil well. F. A. Gruetjen. 2,330,419; Sept. 28.
Pyrimidine compounds, Making. D. Price, E. L. May, and F. D. Pickel. 2,330,380; Sept. 28.
Rack: *See*—
Spool rack.
Radial drill. W. G. Hoelscher. 2,330,426; Sept. 28.
Radio receiving device. G. G. Roberts. 2,330,241; Sept. 28.
Railway track circuit apparatus. G. R. Pflasterer. 2,330,515; Sept. 28.
Range. A. Karges. 2,330,495; Sept. 28.
Rate-of-penetration indicator. S. T. Sikes, Jr. 2,330,752; Sept. 28.
Rayon, Production of pattern effects on acetate. R. W. Hardacre. 2,330,707; Sept. 28.
Reamer. A. L. Romero. 2,330,242; Sept. 28.
Receptacle: *See*—
Delivery receptacle.
Dispensing receptacle.
Receptacle. L. B. Scheide. 2,330,521; Sept. 28.
Receptacle. M. L. Rathbun. 2,330,624; Sept. 28.
Receptacle capping apparatus. I. Kotcher. 2,330,597; Sept. 28.
Record blank supporting arbor and assembly device. L. E. Dettle. 2,330,411; Sept. 28.
Record changer mechanism for phonographs. H. A. Roe. 2,330,383; Sept. 28.
Rectifier, Dry. E. Kipphan and B. Siebert. 2,330,594; Sept. 28.
Reduction apparatus. F. G. Shaub, R. A. McCloud, and B. E. Tiffany. 2,330,751; Sept. 28.
Reed, Adjustable. T. W. Beyer. 2,330,261; Sept. 28.
Reel. J. M. Gordon. 2,330,278; Sept. 28.
Refuse collecting vehicle. J. Ochsner. 2,330,614; Sept. 28.
Register. L. P. Crosman. 2,330,270; Sept. 28.
Register. L. P. Crosman. 2,330,689; Sept. 28.
Releasing device. A. Voigt and G. Melster. 2,330,646; Sept. 28.
Rescue device, Submarine. J. F. Donnelly. 2,330,477; Sept. 28.
Resilient wheel. F. W. Mills. 2,330,301; Sept. 28.
Resins, Manufacture of the phenol-aldehyde type of. J. V. Hunn. 2,330,217; Sept. 28.
Resistance element. O. J. Morelock and H. W. Houck. 2,330,783; Sept. 28.
Resistance elements, Adjusting and sealing. O. J. Morelock. 2,330,782; Sept. 28.
Retainers, Assembling. H. L. Potter. 2,330,741; Sept. 28.
Retaining means. W. R. Mittendorf. 2,330,372; Sept. 28.
Reverse twist barbwire machine. H. A. Nelson. 2,330,611; Sept. 28.
Reversing gear. O. H. Banker. 2,330,198; Sept. 28.
Rifle mechanism. J. D. Pedersen. 2,330,737; Sept. 28.
Ring: *See*—
Packing ring.
Ring binder construction. J. Schade. 2,330,749; Sept. 28.
Ring means for pistons. T. A. Bowers. 2,330,550; Sept. 28.
Rock drills, Dressing and sharpening. E. Craig. 2,330,688; Sept. 28.
Rocker arm support. F. F. Kishline. 2,330,719; Sept. 28.
Roller, Bedspread roller. N. W. Higginbotham. 2,330,711; Sept. 28.
Rotary internal combustion motor. J. Stucke. 2,330,528; Sept. 28.
Rotary printing press. W. A. Whitehead. 2,330,321;
Rubber articles and making the same, Tabbed. C. L. Beal and G. L. Winder. 2,330,330; Sept. 28.
Rubber articles, Making. M. E. Hansen. 2,330,351; Sept. 28.
Rubber tubing, Apparatus and method for manufacture of. D. J. Miller. 2,330,370; Sept. 28.
Saddle, Motorcycle. S. and B. B. du Pont. 2,330,341; Sept. 28.
Safety catch for bar pins of brooches and the like. Q. Chiappinelli. 2,330,789; Sept. 28.
Safety device. V. A. Fox. 2,330,700; Sept. 28.
Safety guard and toy, Combined. P. E. Allen. 2,330,538; Sept. 28.
Safety razor appliance. N. Testi. 2,330,639; Sept. 28.
Safety switch. C. Wantz. 2,330,461; Sept. 28.
Sandals, Manufacture of. S. J. Finn. 2,330,273; Sept. 28.
Sash pulley brake. W. G. Smith. 2,330,391; Sept. 28.
Semicarton. J. F. Ames. 2,330,255; Sept. 28.
Separator. R. W. Hart. 2,330,423; Sept. 28.
Sewing machine loop-taker. D. A. Graesser. 2,330,350; Sept. 28.
Shaping or cutting machine. J. T. Hepburn. 2,330,354; Sept. 28.
Sheet, Baker's. R. E. Cyr. 2,330,410; Sept. 28.
Sheets or webs of plastic material, Manufacture of continuous. B. P. Hazeltine and E. R. Derby. 2,330,282; Sept. 28.
Shield for pustules from vaccination against smallpox. J. Erdély. 2,330,693; Sept. 28.
Ship propulsion. J. T. Troth. 2,330,764; Sept.28.
Shipping container. C. I. Elliott. 2,330,347; Sept. 28.
Shock absorption mechanism for axles of motor cars. B. Barényi. 2,330,541; Sept. 28.
Shock-withstanding bearing. F. W. Meredith and F. H. Owens. 2,330,729; Sept. 28.
Shoe. C. Tweedie. 2,330,459; Sept. 28.
Shoe lasts, Making. W. L. Baxter. 2,330,260; Sept. 28.
Shoe machine. C. G. Brostrom. 2,330,264; Sept. 28.
Signal: *See*—
Vehicle rear signal.
Signaling system. T. H. Mote. 2,330,357; Sept. 28.
Skate, Roller. A. E. and H. C. Dekome and V. J. Sedlon. 2,330,338; Sept. 28.
Ski foot pad. M. R. Oestreich. 2,330,731; Sept. 28.
Sliding door. J. J. Black. 2,330,670; Sept. 28.
Slip clutch. T. W. Paul. 2,330,734; Sept. 28.
Smelting apparatus. J. H. Grace. 2,330,487; Sept. 28.
Smoking pipe. C. J. Smith. 2,330,389; Sept. 28.
Snap switch construction. L. H. Matthias. 2,330,506; Sept. 28.
Socket, Snap fastener. J. E. F. Gobin dit Daudé. 2,330,573; Sept. 28.
Sole, Shoe. I. I. Tubbs. 2,330,458; Sept. 28.
Solid substances from suspension, Method and device for separating. F. Juell. 2,330,589; Sept. 28.
Spectrometer. R. S. Estey and K. W. Harper. 2,330,694; Sept. 28.
Speed controller. T. W. Dwelle. 2,330,342; Sept. 28.
Spool rack. H. Goldschmidt. 2,330,702; Sept. 28.
Spout, Pouring. A. Parsons. 2,330,310; Sept. 28.
Station for carrier frequency communication systems, Subscriber's. H. Nitz. 2,330,612; Sept. 28.
Steam generator. A. E. Raynor. 2,330,240; Sept. 28.
Steel strip or sheet, Cold rolling. V. Byus and E. D. Spangler. 2,330,469; Sept. 28.
Steel with a carbon electrode, Arc-welding low-carbon. B. M. Larsen. 2,330,601; Sept. 28.
Stencil hold-down, Spray. C. O. Clark. 2,330,471; Sept. 28.
Stock for coating and electro-plating, Preparing. J. S. Nachtman. 2,330,608; Sept. 28.
Stocking. A. J. Cobert. 2,330,683; Sept. 28.
Stoker. E. S. Ormsby. 2,330,309; Sept. 28.
Stop for picker mechanisms. E. A. Santon. 2,330,519; Sept. 28.
Stop means for textile machines. C. B. Hayes and H. J. Czech. 2,330,212; Sept. 28.
Stop motion mechanism for die presses. A. M. Cameron. 2,330,555; Sept. 28.
Strength-testing machine. J. G. Jansen. 2,330,492; Sept. 28.
Strut, Brake beam. W. H. Sagstetter. 2,330,748; Sept. 28.
Stuffing machine. B. H. Kidd. 2,330,496; Sept. 28.
Suction cleaner. A. Radke. 2,330,621; Sept. 28.
Suction cleaner. Q. Berg. 2,330,665; Sept. 28.
Suction cleaner. D. C. Gerber. 2,330,701; Sept. 28.
Support: *See*—
Arch support.
Rocker arm support.
Surfaces, Building up. J. M. Keir. 2,330,289; Sept. 28.
Surgical chair. L. E. Donchess. 2,330,476; Sept. 28.
Switch: *See*—
Centrifugally operated mercury switch.
Mercury switch.
Safety switch.
Switch for ball rolling games, Contact. H. E. Williams and L. A. Durant. 2,330,771; Sept. 28.
Switch mechanism. F. Mason. 2,330,439; Sept. 28.
Table for masonry saws, Adjustable. R. Moffat and L. J. Wright. 2,330,510; Sept. 28.
Tablet dispenser. F. B. Ashton. 2,330,256; Sept. 28.
Tabulating mechanism for accounting machines. W. A. Anderson. 2,330,660; Sept. 28.
Take-off device, Air terminal. J. Olaszy. 2,330,733; Sept. 28.
Tampons, Making. S. P. Bailey. 2,330,257; Sept. 28.
Tank: *See*—
Enameled tank.
Grain conveyer and storage tank.

Tapered plug valve. G. D. Johnson. 2,330,493; Sept. 28.
Telegraph apparatus. K. A. Sylvester. 2,330,250; Sept. 28.
Telemetering arrangement. R. G. Arey and H. T. Faus. 2,330,661; Sept. 28.
Telemetering system. R. G. Jewell. 2,330,588; Sept. 28.
Telephone set. G. Biniek and H. Langner. 2,330,548; Sept. 28.
Telescope objective and making same. A. H. Bennett. 2,330 663; Sept. 28.
Television communication, Method and apparatus for. S. L. Clothier and H. C. Hogencamp. 2,330,682; Sept. 28.
Terminal, Rail bond. H. H. Febrey. 2,330,483; Sept. 28.
Terminator, Service. R. W. Smith. 2,330,390; Sept. 28.
Tester. H. W. Uhlrig. 2,330,644; Sept. 28.
Tester, Gun. O. J. McCullough. 2,330,509; Sept. 28.
Textile materials, Fireproofing. W. I. Taylor, H. C. Olpin, and K. R. House. 2,330,251; Sept. 28.
Therapeutically valuable alcohols from germinal gland hormones, Producing. F. Hildebrandt. 2,330,215; Sept. 28.
Thermal testing apparatus. H. P. Kuehni. 2,330,599; Sept. 28.
Thioaniline, Preparation of. L. C. Holt. 2,330,714; Sept. 28.
Thorium from substances containing thorium and iron, Recovering. P. Schaller, E. Froelecke, K. Meyer, O. Roelen, and R. Lüben. 2,330,750; Sept. 28.
Time recorder, Electrically operated workman's. A. Ruttiman and H. N. Deane. 2,330,387; Sept. 28.
Timing apparatus for clocks and watches. T. B. Gibbs. 2,330,416; Sept. 28.
Tool: *See*—
Boring tool. Closure removing tool.
Tool. K. R. L. Grauding. 2,330,575; Sept. 28.
Toolhead for rifling machines. F. O. Hoagland. 2,330,584; Sept. 28.
Tool spindle with removable projection. E. S. Cornell and C. N. Williams. 2,330,686; Sept. 28.
Tracer control for material working machines. P. Volk. 2,330,647; Sept. 28.
Tractor-mounted implement. J. L. Hipple. 2,330,283; Sept. 28.
Tractor-mounted implement. J. Morkoski. 2,330,302; Sept. 28.
Traffic controlling system for railroads, Centralized. S. N. Wight. 2,330,532; Sept. 28.
Transfer mechanism. W. H. Robertson and W. E. Eickman. 2,330,450; Sept. 28.
Tray for upholstered furniture, Extensible. K. J. Reynolds. 2,330,627; Sept. 28.
Trip device for well apparatus. R. C. Baker. 2,330,258; Sept. 28.
Tripping mechanism for record changing apparatus. A. L. Knox. 2,330,293; Sept. 28.
Trolley derailer. W. C. Klein. 2,330,780; Sept. 28.
Truck. A. H. Oelkers. 2,330,784.
Truck bolster suspension means. H. E. Muchnic. 2,330,305; Sept. 28.
Tube: *See*—
Cathode ray tube. Discharge tube.
Tube ends, Enlarging. A. A. Carlson and H. E. Karig. 2,330,556; Sept. 28.
Tufting machine. J. V. Parker. 2,330,615; Sept. 28.
Turbine gland apparatus. D. J. Mosshart. 2,330,730; Sept. 28.
Turpentine and like matters, Hydrating. T. Hasselstrom. 2,330,579; Sept. 28.
Upholstery construction. R. A. Parker, M. Kiessling, and M. J. Kiessling. 2,330,617; Sept. 28.
Valve: *See*—
Hydraulic gate valve. Light valve.
Injector discharge control valve. Tapered plug valve.
Valve. H. B. King. 2,330,290; Sept. 28.
Valve and seat thereof, Needle. O. Natter. 2,330,610; Sept. 28.
Valves, Sealing of rotary. C. W. P. Heylandt, R. Mewes, A. Pomutz and A. Baer. 2,330,583; Sept. 28.
Vaporizer. W. M. V. Lynch. 2,330,297; Sept. 28.
Vapors, Fractionating. F. V. Atkeson. 2,330,326; Sept. 28.
Vehicle: *See*—
Cross-country motor vehicle. Refuse collecting vehicle.
Vehicle. G. G. McNamara, Jr. 2,330,299; Sept. 28.
Vehicle body, Refrigerated. L. A. De More. 2,330,339; Sept. 28.
Vehicle rear signal. F. R. Dietrich. 2,330,561; Sept. 28.
Vehicle spring suspension. W. B. Fageol. 2,330,482; Sept. 28.
Vehicle suspension and steering mechanism. R. Collis. 2,330,557; Sept. 28.
Veneer, Producing forms for molding. J. A. Miller. 2,330,371; Sept. 28.
Vertical boring mill. A. Trosch and W. J. F. Forward. 2,330,529; Sept. 28.
Vise. C. E. Richards. 2,330,382; Sept. 28.
Voltage control apparatus. R. B. Hull. 2,330,429; Sept. 28.
Vulcanizer. H. T. Tornberg. 2,330,319; Sept. 28.
Water content of cores, Determining connate. M. C. Leverett. 2,330,721; Sept. 28.
Water cooler. H. C. T. Whittenberg. 2,330,463; Sept. 28.
Water heater. S. P. Locke. 2,330,436; Sept. 28.
Weighing device. J. M. Robinson. 2,330,746; Sept. 28.
Weight indicator. F. N. Fossati. 2,330,432; Sept. 28.
Welding apparatus. A. E. Berriman. 2,330,465; Sept. 28.
Welding device. J. C. Albright. 2,330,658; Sept. 28.
Welding metals electrically. A. Longoria. 2,330,503; Sept. 28.
Well cementing apparatus. C. E. Burt and W. S. Althouse, Jr. 2,330,267; Sept. 28.
Wheel: *See*—
Differential wheel. Resilient wheel.
Wheel body for dual demountable rims. J. W. Holt. 2,330,285; Sept. 28.
Wheel slippage, Preventing locomotive. H. A. Hoke and N. E. Merrell. 2,330,712; Sept. 28.
Wheel suspension, especially for motor cars. W. Seyerle. 2,330,633; Sept. 28.
Window. A. R. Exiner. 2,330,696; Sept. 28.
Window run, Making. G. T. Balfe. 2,330,662; Sept. 28.
Work guide. H. E. Brennan. 2,330,551; Sept. 28.
Wrapper and cover for magazines and the like, Combined mailing. H. C. Pomeranz. 2,330,619; Sept. 28.
Wrench. A. Boyton. 2,330,201; Sept. 28.
Wringer, Constant pressure. N. L. Etten. 2,330,481; Sept. 28.
Wringer roll stop. N. L. Etten. 2,330,480; Sept. 28.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 28, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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